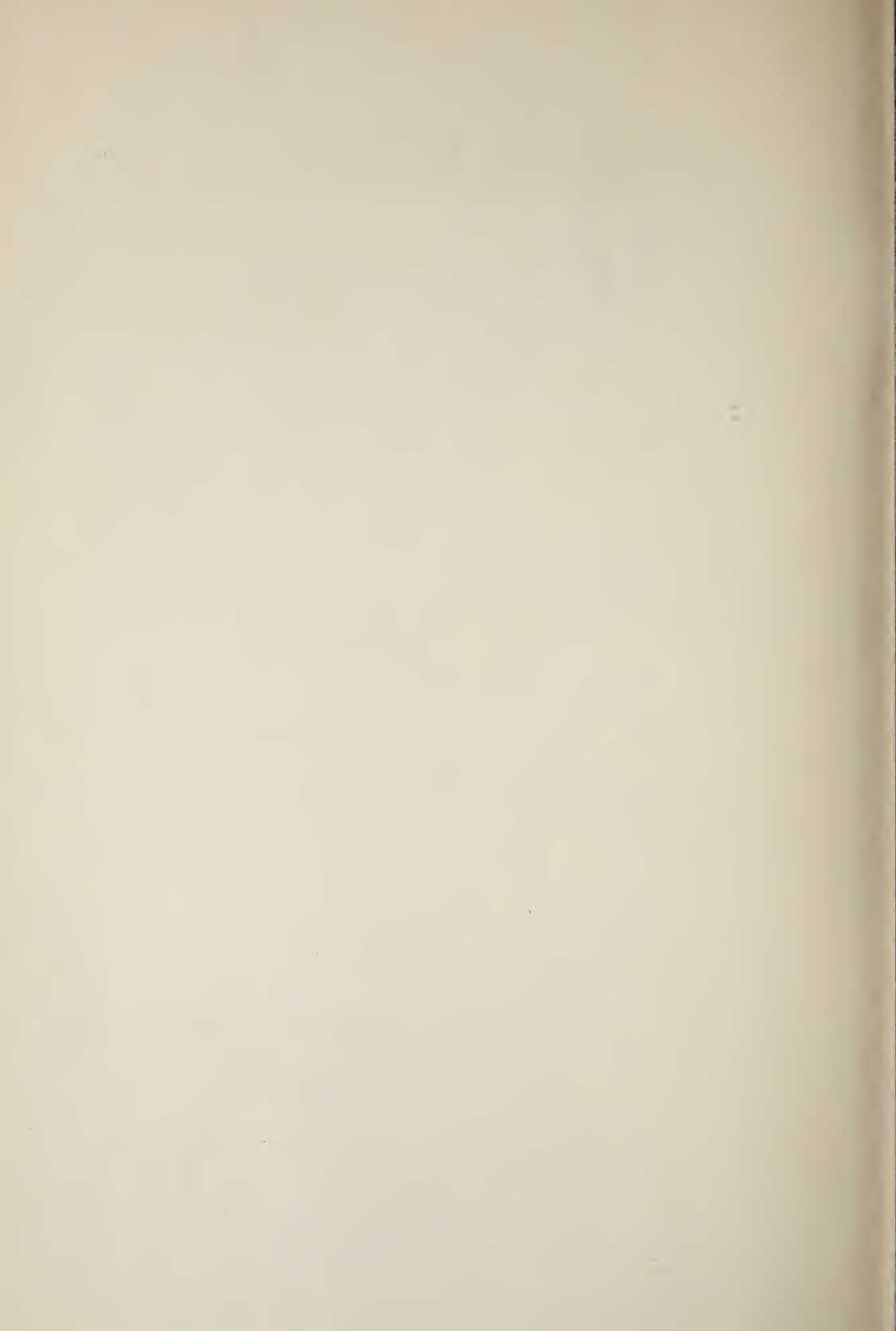




Illinois State Normal University Bulletin

THE GRADUATE SCHOOL
1954 - 1955



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STATE OF ILLINOIS

WILLIAM G. STRATTON, Governor

Illinois State Normal University Bulletin

GRADUATE SCHOOL ISSUE 1954 - 1955

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STATE OF ILLINOIS

WILLIAM G. STRATTON

Governor

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1953-1955

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Illinois State Normal University is governed by the Teachers College Board. The Board consists of nine members appointed by the governor for terms of six years, with two ex-officio members designated by law. An Educational Coordinator and a Financial Coordinator are employees of the Teachers College Board and elected by the Board for specified terms. The Teachers College Board is the governing body for the four state teachers colleges of Illinois.

UNIVERSITY CALENDAR

For Graduate Students

Eight Weeks Summer Session, 1954

Monday, June 21—Opening of and registration for eight-weeks session
Tuesday, June 22—Instruction begins
Tuesday-Thursday, June 29-July 1—Social Science Conference
Tuesday-Thursday, July 13-15—Educational conferences and exhibit
Wednesday-Friday, July 28-30—Special Education Conference
Tuesday, August 3—Last day for filing master's thesis for candidates for the
M.S. in Ed. degree August 13
Thursday and Friday, August 12 and 13—Final examinations
Friday, August 13—Summer Commencement, 3:00 p.m.; close of eight-week
session

First Semester, 1954

Monday, September 13—Opening of first semester
Tuesday, September 14—Registration for late afternoon, evening, and Saturday
classes, 7:30 p.m.
Wednesday and Thursday, September 15 and 16—Registration
Friday, September 17—Instruction begins
Monday, October 11—Illinois Education Association, Central Division meet-
ing; campus and affiliated schools not in session
Friday and Saturday, October 22 and 23—Homecoming
Wednesday, November 24—Thanksgiving vacation begins, 12:00 noon
Monday, November 29—Instruction resumed
Saturday, December 18—Christmas vacation begins after scheduled classes

1955

Monday, January 3—Instruction resumed
Monday-Thursday, January 24-27—Final examinations
Friday, January 28—First semester ends

Second Semester, 1955

Monday, January 31—Opening of second semester
Tuesday and Wednesday, February 1 and 2—Registration
Tuesday, February 1—Registration for late afternoon, evening, and Saturday
classes, 7:30 p.m.
Thursday, February 3—Instruction begins
Saturday, April 2—Spring vacation begins after scheduled classes
Tuesday, April 12—Instruction resumed
Monday, May 30—Memorial Day Holiday
Tuesday, May 31—Last day for filing master's thesis for candidates for the
M.S. in Ed. degree June 11
Monday-Thursday, June 6-9—Final examinations
Friday, June 10—Second semester ends
Saturday, June 11—University Commencement, 3:30 p.m.

ADMINISTRATION

ADMINISTRATIVE COUNCIL

RAYMOND WILBER FAIRCHILD, Ph.D., LL.D., (1933)*	President of the University; Chairman
ARTHUR HOFF LARSEN, Ph.D., (1935)	Dean of the University
Director of the Summer Session; Professor of Education; Vice Chairman	
ELSIE BRENNEMAN, M.A., (1927)	Director of Admissions; Secretary
JOHN WESLEY CARRINGTON, Ph.D., (1933)	Director of Laboratory School Experiences
	Professor of Education
ANNA LUCILE KEATON, Ph.D., (1937)	Dean of Women
	Associate Professor of English
RALPH HARLAN LINKINS, A.M., (1917)	Dean of Men
	Associate Professor of Biological Science
STANLEY K. NORTON, Ph.D., (1948)	Assistant Dean of Men
	Associate Professor of Education
ISABELLE TERRILL, A.M., (1949)	Assistant Dean of Women
	Director of Fell Hall; Instructor in Music
BJARNE R. ULLSVIK, Ph.D., (1945)	Administrative Assistant to the President; Professor of Mathematics

*Figures in parentheses indicate year of first employment in this University.

GRADUATE COUNCIL

*ARTHUR H. LARSEN, Dean of the University, Chairman
 *ELSIE BRENNEMAN, Director of Admissions, Secretary
 *R. W. FAIRCHILD, President of the University
 JOHN W. CARRINGTON, Director of Laboratory School Experiences
 MARGARET COOPER, Director of the Division of Elementary Education
 FLORENCE DAVIS, Head of the Department of Home Economics
 CHRIS A. DE YOUNG, Head of the Department of Education and Psychology
 ESTHER FRENCH, Head of the Department of Health and Physical Education for Women
 R. U. GOODING, Head of the Department of Physical Science
 HERBERT R. HIETT, Head of the Department of English
 F. LINCOLN D. HOLMES, Head of the Department of Speech
 F. LOUIS HOOVER, Head of the Department of Art
 CLIFFORD E. HORTON, Director of the Division of Health and Physical Education
 J. A. KINNEMAN, Head of the Department of Social Science
 ESTHER KIRCHHOEFER, Registrar
 EMMA R. KNUDSON, Head of the Department of Music
 E. M. R. LAMKEY, Head of the Department of Biological Science
 C. N. MILLS, Head of the Department of Mathematics
 ROSE. E. PARKER, Director of the Division of Special Education
 R. M. STOMBAUGH, Head of the Department of Industrial Arts
 HERMAN R. TIEDEMAN, Chairman, Committee on Research
 LEWIS R. TOLL, Head of the Department of Business Education
 A. W. WATTERSON, Head of the Department of Geography
 ELEANOR W. WELCH, Director of Libraries
 JENNIE A. WHITTEN, Head of the Department of Foreign Languages

* Constitute the Executive Committee of the Council.

FACULTY

RAYMOND W. FAIRCHILD, Ph.D., LL.D., (1933)	President of the University
ARTHUR HOFF LARSEN, Ph.D., (1935)	Chairman of the Faculty
ELSIE BRENNEMAN, M.A., (1927)	Dean of the University
	Vice Chairman of the Faculty
	Director of Admissions
	Secretary of the Faculty
<hr/>	
WILLIAM D. ASHBROOK, Ph.D., (1947)	Associate Professor of Industrial Arts
G. BRADFORD BARBER, Ph.D., (1944)	Assistant Professor of Speech
*GLADYS L. BARTLE, Ph.D., (1930)	Associate Professor of Art
*FRANCIS B. BELSHE, Ph.D., (1948)	Associate Professor of Education
*RICHARD GIBBS BROWNE, Ph.D., (1928)	Professor of Social Science
ROSE BURGESS BUEHLER, Ed.D., (1930)	Associate Professor of Education
JOHN WESLEY CARRINGTON, Ph.D., (1933)	Director of Laboratory School Experiences
	Professor of Education
HELEN M. CAVANAGH, Ph.D., (1946)	Associate Professor of Social Science
MARGUERITE REGINA CONNELL, Ed.D., (1928)	Associate Professor of Foreign Languages
GEORGE CONRAD, Ed.D., (1949)	Associate Professor of Art
BERNICE COOPER, Ph.D., (1944)	Professor of Health and Physical Education
MARGARET COOPER, Ed.D., (1932)	Professor of Education
	Director of the Division of Elementary Education
DE VERNE H. DALLUGE, Ed.D., (1947)	Associate Professor of Physical Science
FLORENCE DAVIS, Ph.D., (1952)	Professor of Home Economics
	Director of the Division of Home Economics Education
	Head of the Department of Home Economics
WILLIAM I. DE WEES, Ed.D., (1937)	Associate Professor of Education
CHRIS A. DE YOUNG, Ph.D., LL.D., (1934)	Professor of Education
	Director of the Division of Secondary Education
	Head of the Department of Education and Psychology
ELEANOR DILKS, Ph.D., (1952)	Associate Professor of Biological Science
CLAUDE M. DILLINGER, Ph.D., (1944)	Professor of Psychology
MARIE M. DIRKS, Ph.D., (1946)	Professor of Home Economics
DORATHY ECKELMANN, Ph.D., (1945)	Associate Professor of Speech
RAYMOND W. ESWORTHY, Ph.D., (1949)	Associate Professor of Business Education
G. HARLOWE EVANS, Ph.D., (1946)	Associate Professor of Physical Science
DOROTHY E. FENSHOLT, Ph.D., (1951)	Assistant Professor of Biological Science
HOWARD I. FIELDING, Ph.D., (1944)	Associate Professor of English
ESTHER L. FRENCH, Ph.D., (1944)	Professor of Health and Physical Education
	Head of the Department of Health and Physical Education for Women
BERNICE GERTRUDE FRY, Ph.D., (1930)	Professor of Health and Physical Education
RUTH M. FREYBERGER, Ed.D., (1951)	Associate Professor of Art
HAROLD E. GIBSON, Ed.D., (1950)	Associate Professor of Education
VICTOR E. GIMMESTAD, Ph.D., (1948)	Director of the Bureau of Appointments
F. RUSSELL GLASENER, Ph.D., (1935)	Associate Professor of English
RALPH U. GOODING, Ph.D., (1931)	Professor of Social Science
MIRIAM GRAY, Ed.D., (1946)	Professor of Physical Science
	Head of the Department of Physical Science
NINA E. GRAY, Ph.D., (1935)	Associate Professor of Health and Physical Education
*ESTHER M. GRIFFITH, Ph.D., (1947)	Professor of Biological Science
EDNA MAY GUEFFROY, Ph.D., (1929)	Associate Professor of Physical Science
JEANETTE GUND, Ph.D., (1953)	Associate Professor of Geography
	Assistant Professor of Health and Physical Education
GERTRUDE M. HALL, Ed.D., (1936)	Associate Professor of Education
	Director of Publicity
CLARENCE W. HARDY, M.D., (1953)	Director of University Health Service
ARLAN C. HELGESON, Ph.D., (1951)	Assistant Professor of Social Science

* Leave of absence 1953-54 school year.

RUTH HENLINE, Ph.D., (1926) Associate Professor of English
 HERBERT REYNOLDS HIETT, Ph.D., (1937) Professor of English
 Head of the Department of English
 EUGENE LEONARD HILL, Ed.D., (1930) Associate Professor of
 Health and Physical Education
 F. LINCOLN D. HOLMES, Ph.D., (1935) Professor of Speech
 Director of the Division of Speech Education
 Head of the Department of Speech
 F. LOUIS HOOVER, Ed.D., (1944) Professor of Art
 Director of the Division of Art Education
 Head of the Department of Art
 CLIFFORD EMORY HORTON, Ed.D., (1923) Professor of Health
 and Physical Education
 Director of the Division of Health and Physical Education
 Head of the Department of Health and Physical Education for Men
 *CHRISTINE P. INGRAM, Ed.D., (1949) Professor of Education
 LESLIE M. ISTEAD, Ph.D., (1940) Associate Professor of Music
 MILFORD C. JOCHUMS, Ph.D., (1948) Associate Professor of English
 BLOSSOM JOHNSON, Ed.D., (1945) Associate Professor of Home Economics
 ANNA LUCILE KEATON, Ph.D., (1937) Associate Professor of English
 BENJAMIN J. KEELEY, Ph.D., (1952) Assistant Professor of Social Science
 Dean of Women
 JOHN A. KINNEMAN, Ph.D., (1927) Professor of Social Science
 Head of the Department of Social Science
 EMMA R. KNUDSON, Ph.D., (1934) Professor of Music
 Director of the Division of Music Education
 Head of the Department of Music
 HAROLD F. KOEPKE, Ph.D., (1934) Professor of Business Education
 CLARENCE H. KURTH, Ed.D., (1951) Assistant Professor of Education
 ERNEST M. R. LAMKEY, Ph.D., (1927) Professor of Biological Science
 Head of the Department of Biological Science
 CECILIA J. LAUBY, Ed.D., (1949) Associate Professor of Education
 Coordinator of Off-Campus Student Teaching
 ELLA C. LEPPERT, Ed.D., (1945) Associate Professor of the Teaching
 of Social Science
 ELDEN A. LICHTY, Ed.D., (1945) Professor of Education
 HARRY D. LOVELASS, Ed.D., (1946) Professor of Psychology
 Principal of University High School
 WILLIAM R. LUECK, Ph.D., (1936) Professor of Education
 HELEN E. MARSHALL, Ph.D., (1935) Professor of Social Science
 J. LOUIS MARTENS, Ph.D., (1947) Associate Professor of Biological Science
 STANLEY S. MARZOLF, Ph.D., (1937) Professor of Psychology
 BLANCHE MC AVOY, Ph.D., (1926) Professor of the Teaching of Biological Science
 CLYDE T. MC CORMICK, Ph.D., (1944) Professor of Mathematics
 WALLACE E. MC INTYRE, Ph.D., (1951) Associate Professor of Geography
 RALPH A. MICKEN, Ph.D., (1949) Professor of Speech
 LEE WALLACE MILLER, Ph.D., (1935) Professor of Biological Science
 Director of University Field Services
 MARION G. MILLER, Ph.D., (1937) Associate Professor of Art
 MURRAY LINCOLN MILLER, Ph.D., (1950) Associate Professor of Education
 Director of Audio-Visual Education
 CLIFFORD NEWTON MILLS, Ph.D., (1925) Professor of Mathematics
 Head of the Department of Mathematics
 ROBERT H. MOORE, Ph.D., (1952) Associate Professor of Education
 STANLEY K. NORTON, Ph.D., (1948) Associate Professor of Education
 Assistant Dean of Men
 BURTON L. O'CONNOR, Ed.D., (1937) Associate Professor of the Teaching
 of Health and Physical Education
 Director of University High School Athletics
 GERDA OKERLUND, Ph.D., (1931) Professor of English
 ROSE ETOILE PARKER, Ph.D., (1931) Professor of Education
 Director of the Division of Special Education
 HENRI R. PEARCY, Ph.D., (1940) Associate Professor of Social Science
 HARLAN W. PEITHMAN, Ed.D., (1937) Professor of Music

* Leave of absence 1953-54 school year.

MARGARET KATHERINE PETERS, Ed.D., (1930)	Associate Professor of Business Education
HOWARD O. REED, Ed.D., (1944)	Associate Professor of Industrial Arts
VERNON L. REPLOGLE, Ed.D., (1950)	Associate Professor of Education Principal of Metcalf Elementary School
JOHN L. REUSSER, Ph.D., (1944)	Associate Professor of Education Principal of Illinois Soldiers' and Sailors' Children's School
DONALD T. RIES, Ph.D., (1946)	Associate Professor of Biological Science
T. E. RINE, Ph.D., (1941)	Associate Professor of Mathematics
BERTHA MAY ROYCE, Ph.D., (1925)	Professor of Biological Science
THEODORE SANDS, Ph.D., (1950)	Associate Professor of Social Science
MARY C. SERRA, Ph.D., (1951)	Associate Professor of Education
GWEN SMITH, Ph.D., (1946)	Associate Professor of Health and Physical Education
CLARENCE W. SORENSEN, Ph.D., (1949)	Associate Professor of Geography
FRED S. SORRENSEN, Ph.D., (1920)	Professor of Speech
IRWIN SPECTOR, Ph.D., (1948)	Associate Professor of Music
RAY M. STOMBAUGH, Ph.D., (1935)	Professor of Industrial Arts Director of the Division of Industrial Arts Education Head of the Department of Industrial Arts
LUCY LUCILE TASHER, Ph.D., (1935)	Associate Professor of Social Science
GLENN J. TAYLOR, Ph.D., (1950)	Professor of Speech
FLORENCE EVELYN TEAGER, Ph.D., (1931)	Professor of English
HERMAN R. TIEDEMAN, Ph.D., (1946)	Professor of Psychology
LEWIS R. TOLL, Ed.D., (1947)	Professor of Business Education Director of the Division of Business Education Head of the Department of Business Education
BJARNE R. ULLSVIK, Ph.D., (1945)	Professor of Mathematics Administrative Assistant to the President
DALE B. VETTER, Ph.D., (1941)	Professor of English
ESTHER VINSON, Ph.D., (1926)	Associate Professor of English
ARTHUR WELDON WATTERSON, Ph.D., (1946)	Professor of Geography Head of the Department of Geography
MILDRED C. WELLS, Ph.D., (1951)	Associate Professor of Education
JENNIE ALMA WHITTEN, Ph.D., (1919)	Professor of Foreign Languages Head of the Department of Foreign Languages
*JOHN H. WOODBURN, Ph.D., (1949)	Assistant Professor of Science
LEO J. YEDOR, Ph.D., (1948)	Associate Professor of Social Science
ORVILLE L. YOUNG, Ph.D., (1939)	Associate Professor of Agriculture

* Leave of absence 1953-54 school year.

GENERAL INFORMATION

The graduate School has for its primary purpose the preparation of professionally competent teachers, school administrators, and supervisors. The interests, needs, and abilities of each student will be given consideration in organizing for him a unified and balanced program of work directed toward the realization of a definite educational objective.

Programs of graduate study leading to the degree of Master of Science in Education are provided for students who wish to become master teachers in elementary schools, secondary schools, or in community (junior) colleges, or for those who wish to become guidance and personnel workers. Students who wish to become administrators and supervisors will find specific curricula available for supervisors of student teaching in elementary or secondary schools, for superintendents of schools, for principals of elementary or secondary schools, and for supervisors of instruction.

As a way of meeting urgent needs in the field of special education, a curriculum is available in which it is possible to emphasize preparation for teaching the mentally retarded, the physically handicapped, the deaf and hard of hearing, the partially sighted, and speech correction.

Graduate course offerings are designed not only to serve the needs of students who desire the degree of Master of Science in education, but also to meet the needs of students who may wish to continue their professional preparation or broaden their educational experiences without reference to the requirements for a degree.

HISTORY

Graduate study at Illinois State Normal University was offered for the first time during the summer session of 1944 as a result of authorization by the Teachers College Board on July 12, 1943. Consideration of and preparation for graduate work are not matters of recent concern at Illinois State Normal University. In 1937, the Graduate Committee of the University became interested in preparing for the time when such an advanced program would be undertaken. Beginning in 1941, the five state teachers colleges and the University of Illinois, through several conferences each year, planned a five-year program of work culminating in the Master's degree. All of these considerations have resulted in excellent preparation for this additional program.

The Graduate Committee of the Teachers College Board indicated on January 10, 1944, that seven departments meeting the high standards established would be approved for inaugurating a graduate program in the summer of 1944. Since that time nine other departments have been approved until now sixteen departments are authorized to offer graduate work. Other departments will be approved as rapidly as they meet the standards designated by the Teachers College Board. The first graduate degree of Master of Science in Education was granted at the commencement of June 4, 1945. Since that time many persons have qualified for Master's degrees at both the June and August commencements of each year.

RECOGNITION BY ACCREDITING ASSOCIATIONS

Illinois State Normal University is accredited by the North Central Association of Colleges and Secondary Schools. On the graduate level also Illinois State Normal University meets all standards established by the North Central Association of Colleges and Secondary Schools and the American Association of Colleges for Teacher Education.

FACULTY COMPETENCE

The qualifications of the faculty are an element of strength in any graduate program. In establishing the graduate program, the Teachers College Board stipulated that any faculty member teaching graduate courses is required to have a Doctor's degree. The present graduate faculty offering approved courses includes ninety-two persons with Doctor's degrees.

Ability to offer excellent work on the graduate level is not confined to scholastic attainment in terms of degrees but is also evident in high quality teaching, enhanced through the experiences of many staff members who have offered graduate courses in other colleges and universities. Teaching ability must be recognized as a first essential in determining the value of a faculty member, even on the graduate level.

Membership and participation in professional organizations and learned societies in special fields, as well as the authorship of books, monographs, and articles, have all combined to provide recognition of many staff members as authorities in their fields.

BUILDINGS AND EQUIPMENT

To make it possible for students to do first-class work on the graduate level, a college must recognize that excellent buildings and adequate equipment, especially in certain areas, are absolute necessities.

Illinois State Normal University is fortunate in having Milner Library, completed in 1940, designed for undertaking a graduate program. For a number of years, materials have been added to the holdings of the Library in anticipation of the offerings in graduate work. Ample funds are available for constant additions to these holdings. With fifty-six carrells in the stack area provided for graduate study, two large reserve rooms, a very spacious reading room, and other equally valuable facilities, students undertaking graduate work will have the best of housing in which to use the ample materials at their disposal.

The availability of excellent laboratories in the Felmley Hall of Science meets exacting requirements for advanced work in the various sciences. The financial ability of the University to add new and needed equipment and supplies at any time makes possible the highly satisfactory furtherance of study in the science area.

Excellent facilities in special education are made available in a building completed in 1950. This building contains facilities for the mentally retarded, the physically handicapped, the partially sighted and blind, and the deaf and hard of hearing. There are also facilities for psychological services, including testing and counseling.

Housing facilities and equipment in areas other than library and science afford opportunities for graduate students to do complete and thorough work comparable with that offered in the best institutions of higher education.

THE SUMMER SESSION

Illinois State Normal University provides a summer session of eight weeks. Though students of the regular year attend these sessions in constantly growing numbers, about two-thirds of the attendance is composed of teachers in service who wish to continue their education during the summers. Regular courses with the regular University staff of instructors are offered. A student will receive the same type of work as that secured during the regular year.

Student teaching and internship facilities are available for those who qualify for such work.

The maximum number of hours permitted any graduate student in the regular summer session is eight semester hours, which constitutes one-half of the credit for one semester.

The Summer Session Bulletin issued each year may be secured by writing to the Director of the Summer Session. The bulletin contains a detailed description of all courses, the cost of attendance, special attractions during the summer, including the Educational Conference and Exhibit, and other types of information of interest to those wishing to combine a pleasant summer with profitable work.

LATE AFTERNOON, EVENING, AND SATURDAY CLASSES

Illinois State Normal University offers a number of graduate courses on the University campus during the late afternoons and evenings and on Saturdays during the regular school year. These courses may be used to apply toward the Master's degree.

SERVICES FOR WAR VETERANS

Illinois State Normal University welcomes the opportunity to serve those returning from military services and seeks to meet the individual needs of each veteran as far as its facilities permit.

Members of the faculty are prepared to help veterans secure scholarships and rehabilitation aid from the state, as well as the benefit which the federal government provides. Counseling service is also furnished to help students decide upon the type of training for which they are best fitted.

A State Military Scholarship covering University fees for four years is available to a veteran who has an honorable discharge and was a resident of the State of Illinois at the time he entered military service.

The Director of Housing assists in finding desirable living quarters, and the student Deans help in securing part-time employment. The loan funds of the University are available for returning veterans.

Before registration, veterans should correspond with or see Mr. Stanley K. Norton, Director of Services for Veterans, regarding qualifications to meet the various provisions established by the state and federal governments.

ADMISSION

Admission to courses for graduate credit will be determined by the following general requirements:

1. A Bachelor's degree from a college or university that is accredited by the American Association of Colleges for Teacher Education, or by the appropriate regional accrediting agency, or by one that is recognized by the state university of the state in which the college or university is located is required. It should be clearly understood that a student who is admitted to the Graduate School may be required to spend more than the minimum time to complete the work for the Master's degree. All deficiencies must be cleared before students will be admitted to candidacy for the degree.

2. A student with the Bachelor's degree from an institution not on the accredited or approved lists, as previously designated, may be accepted conditionally as an unclassified student, pending the satisfactory completion of one semester of graduate work.

3. Students who have less than twelve semester hours to complete for graduation from a four-year undergraduate curriculum at Illinois State Normal University, may, with the consent of the Dean, be permitted to enter graduate courses for not more than the difference between the amount required for the Bachelor's degree and twelve semester hours. In the regular summer session, the maximum for such students is six semester hours.

4. Complete official transcripts of all college work must be filed .

5. Admission will be restricted to students whose undergraduate record and whose other qualifications indicate promise of success in graduate work.

Application blanks for admission to graduate work may be secured from and filed with the Director of Admissions. After the blanks and the necessary transcripts have been received, they will be given consideration by the Committee on Admissions. The Committee consists of the Head of the Department concerned, the Director of Admissions, and the Dean of the University, who is Chairman of the Graduate Council. The Committee on Admissions will indicate undergraduate deficiencies, if any.

Admission to graduate courses does not guarantee candidacy for the Master's degree.

ADVISORY COMMITTEE

Each student admitted to graduate study will work under the direction of an Advisory Committee. This Committee will consist of a member of his major department as Chairman, appointed by the Head of that Department, and a second member appointed by the Chairman of the Graduate Council, upon nomination by the Chairman of the Advisory Committee and the student.

Among the responsibilities of the Committee are: advising students with reference to elective courses; recommending the type of practical school experience, if any, that the students are to have; recommending students for admis-

sion to candidacy for the degree; directing theses and research projects for those students who complete them; and prescribing and conducting final examinations.

ADMISSION TO CANDIDACY

Admission to candidacy for the Master's degree will be under the direction of the Graduate Council upon the recommendation of the graduate's Advisory Committee. The Council may deny such admission to candidacy, or may refuse further registration, upon the basis of unsatisfactory scholarship or unfitness for teaching on physical, moral, mental, or emotional grounds. All requirements for admission to candidacy, including the removal of all deficiencies, must be satisfied not later than the completion of approximately sixteen semester hours of graduate work, at which time the student should file application for admission to candidacy. The student must file with the Dean of the University an application for admission to candidacy for the Master's degree on or before March 1 preceding the date on which he expects to receive the degree.

EXPENSES AND FINANCIAL AIDS

Since a high percentage of funds necessary to provide a superior quality of education is available through state appropriations, the cost to the student attending Illinois State Normal University is very moderate compared with that at many colleges and universities. Attention is called to the items included under the school fees and the extensive service given in return for the moderate expenditure.

Fees*

The following fees are for students who are residents of the state of Illinois. The registration and activity fees for non-resident students are \$90 per semester for full-time students and \$12.50 per credit hour for part-time students (six hours or less). All other fees are the same for residents and non-residents of Illinois.

Registration and activity fees, per semester	\$45.00
Programs of six semester hours, or less, per hour	5.00
Students taking such programs are not required to pay the activity fee.	
Matriculation fee (payable at the time of admission to the Graduate School)	5.00
Graduation fee	10.00
Towel Fee	2.00
Transcript of Record (after first copy)	1.00

Transcripts are issued only when all obligations have been met.

A charge of \$3.00 will be made for registration after the scheduled registration days.

A change in program fee of \$1.00 is charged beginning June 24, 1954,

* Veterans should read the section entitled "Services for War Veterans" on page 11 before paying any fees.

for the summer session, September 23, 1954, for the first semester, and February 10, 1955, for the second semester.

No refunds will be made after September 27, 1954, for the first semester and after February 10, 1955, for the second semester.

The activity fee indicated above is \$15.00 and it covers all general school charges such as library, towel, shop, laboratory, and typewriting fees; activities and publications such as athletics, music, lecture, dramatic, and forensic events, class dues, the school paper, and the school annual; health and medical dispensary service through the office of the University Physician and infirmary and hospitalization service as indicated later in this Bulletin under "Promotion of Health." Graduate students are required to purchase textbooks needed in their courses.

Important. Fees are due and payable on registration day. No one will be permitted to attend classes until all financial obligations to the University have been cared for.

Fees for Summer Session

For the eight-week summer session, residents of the state of Illinois pay \$20.00 for the registration and activity fees for four hours or more. Part-time resident students pay \$5.00 per credit hour. Students not residents of the state of Illinois pay \$42.50 for registration and activity fees for the eight-week summer session. Non-residents pay \$12.50 per credit hour for less than four hours.

All other fees are the same for the summer session as those described above.

Living Accommodations

Dunn Hall, a residence hall for men, accommodates one hundred fifty-six men. The hall is a modern three-story structure provided with dining room, lounge, and recreation room. The student rooms are double rooms.

Smith Hall, a residence hall for men, offers rooming accommodations for fifty-two men students.

Inquiries about residence in men's halls should be addressed to Mr. R. H. Linkins, Dean of Men.

Fell Hall, the Freshman women's residence hall, attractively decorated and comfortably furnished, affords rooming and boarding accommodations for approximately two hundred fifty women students attending the University. Besides the Freshman women, there are a small number of honor residents, who, having attended the University for at least **one year**, are invited to live in the Hall because of outstanding scholarship, leadership, and personality. During the summer session only, Fell Hall is available as a residence hall for all women students.

Barton Hall, a residence hall for women, accommodates one hundred fifty-six women. Sophomores, juniors, seniors, and graduate students are eligible as occupants. This hall is a modern three-story structure provided with dining room, lounge, and recreation room. The student rooms are double rooms.

Inquiries about residence in women's halls should be addressed to Miss Isabelle Terrill, Director of Women's Residence Halls.

Room and board in all University residence halls will cost \$297 per semester, or approximately \$16.50 per week. A deposit of \$10 is required when

an application for residence hall reservation is submitted. The University reserves the right if necessary to increase the rate of room and board in residence halls at the beginning of any semester or summer term, with the understanding that adequate notice will be given to acquaint all residents of the halls with the change in rate.

On Sudduth Road, west of Main Street, is located Cardinal Court, the veteran's village, which provides dormitories for ninety-six single veterans and apartments to house eighty-five families of veterans. Additional dormitory space is also available under University supervision at 507 South University, opposite McCormick Athletic Field. Both dormitories and apartments are open to veteran and non-veteran students. Rentals in these units will be \$72 per semester for dormitory space, \$21 per month for one-room apartments, and \$24 per month for two-room apartments. A deposit of \$10 is required when an application is submitted for reservation in any of these accommodations. Information concerning Cardinal Court dormitory and apartment accommodations may be secured from Mr. Stanley K. Norton, Assistant Dean of Men.

The town of Normal has homes in which students may secure accommodations within walking distance of the University. Lists of approved rooming houses and apartments for married students are kept at the office of Mrs. Eloise Malmberg, Director of Housing. Students may wish to consult these lists before engaging rooms.

The prevalent rate of rent for desirable and well-equipped rooms, large enough for two persons, is between \$3.50 and \$5.00 for each person per week; for similar single rooms, between \$4.00 and \$5.00. Apartments vary widely in cost.

Meals may be secured at a cost of approximately \$10 to \$15 a week or more, according to the choice of the student.

Other Expenses

With the payment of the registration and activity fees of \$45.00 each semester, there are no further institutional charges aside from locker fees, largely in the nature of deposits, and the purchase of gymnasium apparel for those taking such work. For men and women students the gymnasium locker deposit is \$1.00, which is returnable at the end of the year.

Lockers for general use may be rented for twenty-five cents a semester. The rental fee and a deposit of \$1.00 required for combination padlocks will be paid in the Business Office.

Estimated Total Expenses

The average cost for board, room, laundry, books, school supplies, fees and all other costs connected with University life is approximately \$700 to \$900 for the regular school year of thirty-six weeks.

Assistantships and Scholarships

A limited number of assistantships paying from \$50 to \$100 a month may be applied for by graduate students. Information concerning assistantships may be obtained from the President of the University.

A graduate scholarship fund of \$250 is made available by the Illinois Congress of Parents and Teachers for graduate study in the field of Special Education. Recipients of graduate scholarships are selected on the basis of ability, personality, and professional interests. Information concerning these scholarships may be obtained from the Director of the Division of Special Education.

Any person who has been honorably discharged from the army, navy, coast guard, or marine corps during World Wars I or II, who was a resident of the state of Illinois upon entering military service, and who meets the requirements for admission is entitled to a military scholarship to any of the four state teachers colleges. The scholarship may be used any four years within a period not to exceed six years and covers University fees for four years.

Loan Fund

A general loan fund is available for graduate students, from which they may borrow at a low rate of interest a sum not to exceed \$150. Information concerning this fund may be obtained from the Chairman of the Student Financial Aid Committee.

UNIVERSITY HEALTH SERVICE

The University Health Service is maintained by, and is an integral part of Illinois State Normal University. It is concerned directly with promoting good physical and mental health among University students. Good health is essential for success as a student or teacher. Some knowledge of health principles is also an essential part of a teacher's equipment.

The Health Service is located in the east wing of the Special Education Building, with its entrance on University Street. In addition to space for offices and laboratories, an Infirmary of about twenty beds is available for the care of acute illnesses, and for the isolation of students with communicable diseases. At the discretion of the University physician, some cases, such as those requiring major surgery, will be admitted or transferred to local hospitals.

All students are required to take a physical examination when entering the University. Examinations, including a required X-ray of the chest, are given by or under the auspices of the University Health Service. These examinations are used as a basis for determining the amount of physical activity a student may engage in while at the University. Evaluation of each student's health is also a basic step to education in health and medical practices for maintaining health not only while in the University but later in life as well. Knowledge of positive health factors and many health procedures are of increasing importance in teacher education.

In addition to services which are educational or preventive in nature, the University physician is available for consultation during office hours regarding any health problems a student may have. Treatment will be offered for any acute illnesses which, in the judgment of the University physician, do not require the services of a specialist. Whenever it is indicated, students will be referred to competent specialists.

Based on very limited funds set aside from student activity fees the Health

Service provides some financial aid for hospitalization. Students having hospitalization insurance and other medical care coverage are advised to maintain and use it, since the Health Service Fund aid is less inclusive. Simultaneous benefits cannot be received from Health Service and insurance funds. The following regulations govern the Health Service and the Health Service Fund:

1. Participation is available only to students who have paid their student activity fees.

2. Regular office hours are maintained by the University physician from 9:00 a.m. to 11:45 a.m. and from 2:00 p.m. to 4:45 p.m., Monday through Friday. Saturday hours are 10:00 a.m. to 11:45 a.m. No charge is made for this service. Medicines except for simple drugs and routine immunization must be provided by the student.

3. For hospitalization in local hospitals when approved by the Director of the University Health Service the following amounts only will be paid:

- a. Five dollars per day for a total of not more than seven days in any one semester. Time is proportionate for summer session and in neither instance is cumulative.

- b. Costs of medicines, dressings, laboratory tests, X-ray fees, special nurses, operating or emergency room fees, anaesthetic fees, casts, if in excess of the above, and all other hospitalization costs, including ambulance and taxi fees, are paid by the student.

4. In certain instances, when a student is referred to an outside physician for consultation, the fund will pay up to \$5.00 for one hospital visit or office call. All surgeon's and physician's fees in excess of the above are the financial responsibility of the student. The University Health Service will not be responsible for private physician's fees unless the visit has been previously authorized; except that, if, in a real emergency, a private physician is called because the University physician is not available, the University physician may at his own discretion subsequently authorize the payment of \$5.00 towards such emergency care.

5. House or room calls.

It is believed that with rare exceptions student illnesses are best diagnosed and treated in the dispensary and infirmary maintained by the University for that purpose. The rapid spread of upper respiratory infections is unavoidable under dormitory conditions if students are permitted to remain in their rooms at their own discretion when ill. The various house mothers have neither the training nor the time to provide bedside nursing services. Students are therefore expected to report to the Health Service when ill, and if bed rest is indicated, it will be provided in the Infirmary. There will therefore be almost no cases in which a house call is desirable, and it is not the policy of the University for the University physician to make them, or to pay for house calls by private physicians. In the rare instances when a house call may be desirable, the student may be subject to a service charge. The Infirmary is open at all times when the University is in sessions. Students who become ill outside of clinic hours are expected to report to the nurse on duty in the Infirmary. The University physician

will then be contacted by the nurse for instructions, or for a consultation if indicated.

6. No University student is eligible for services outlined at the expense of the fund, or for X-rays, laboratory work or electrocardiograms unless he presents from the Director of the Health Service an authorization designating and approving the type of service to be rendered, and then only to the amount specified. Costs over the authorized amounts are paid by the student.

7. Notification of parents about illness.

Since many of the Infirmary patients will have only minor illnesses of short duration no attempt can be made to notify all parents on each admission. Parents may rest assured, however, that they will be contacted whenever there is serious or prolonged illness on the part of a minor student.

8. Chronic conditions or ailments developed prior to the student's connection with Illinois State Normal University will not be approved for hospitalization or given care at the expense of the Fund of the University Health Service.

9. Excuses for illness.

Students are expected to report promptly to the Health Service all illness of sufficient severity for them to have to miss classes. A list of such illnesses is sent to the offices of the Dean of Men and Dean of Women daily, but does not constitute an "excuse" for the work missed. The work will have to be made up. When students are under the care of the Health Service physician, and miss classroom work because of doctor's orders, this information also is sent to the Deans of Men and Women daily, but this notification carries added weight. If any great amount of time is missed this report of the Health Service will insure the student cooperation on the part of his teachers in making up the work, and prevent undue hardships on his part.

The foregoing regulations apply only during the regular school year or summer session for which fees have been paid. Service is not available during vacation periods as indicated in the University Calendar or as may be proclaimed by the President excepting to the limits of hospitalization allowed, and provided such hospitalization commenced prior to the vacation period or end of the semester or summer session. These regulations represent a working arrangement, and may be subject to revision from time to time at the discretion of the Director of the University Health Service, as conditions may warrant.

BUREAU OF APPOINTMENTS

Illinois State Normal University maintains an active program of teacher placement and endeavors to keep in constant touch with the needs and requirements of the schools of the state and with the qualifications of its candidates who are trained for this service. The Director cooperates with the Directors of Divisions in organizing and directing the work of the Bureau of Appointments. An Assistant Director and a secretary work full time to further the service of

the Bureau. The University receives many calls for rural, kindergarten, elementary, high school, and community (junior) college teachers, elementary supervisors, critic teachers, and teachers of exceptional children. Students who have made commendable records in their chosen fields and in the laboratory schools are in demand. The Bureau attempts to serve both the candidates and the schools of the state by selecting carefully those whom it recommends with regard to their fitness to satisfy the particular requirements of the schools to which they may go.

Students with Master's degrees and successful experience are in demand for supervisory and administrative positions. Consequently, the Bureau makes an effort to follow up graduates in order to assist them to the more responsible positions for which their experience and success in the field have especially prepared them. All Illinois State Normal University graduates who desire to secure professional and financial advancement should each year bring their credentials up to date in the Bureau of Appointments.

A carefully organized system of records covering the work of the student in both his academic and professional courses is on file. This record is the result of the cooperation and assistance of members of the faculty who are familiar with the work of the candidate. Confidential information organized in the most approved form for the convenience of school officials is available on short notice.

Student credentials supply the following data relative to each candidate: personal information, teaching experience in the public schools; curriculum pursued; college hours of preparation in first and second teaching fields; academic record in college; record in student teaching; personal evaluation by instructors, critic teachers, and supervisors under whom the candidates have worked.

This year the Bureau of Appointments will not have enough registrants to meet the demand in elementary grades and some high school and special subject fields. With the increased emphasis on public education, it is reasonable to believe that a shortage of well-qualified teachers will exist for years to come.

The Bureau of Appointments is at the service of all graduates of Illinois State Normal University and of all school administrators in need of teachers.

PART-TIME LOAD

Not more than six semester hours per semester may be taken by students holding full-time positions. This maximum is not recommended for effective work.

MARKING SYSTEM

The marks to be given in graduate courses are A, B, C, D, for passing work, F for failure, I for incomplete, and WX, WP, or WF for withdrawal with official permission.

An F will be given to a student who withdraws from a course at any time without official permission.

An I will be given to students who are doing passing work but who, because of illness or other justifiable reasons, find it impossible to complete the

work by the end of the term or semester. Unless the student has been in class to within three weeks of the close of the semester or one week of the close of the summer session, and the quality of his work is such that he can complete it through special assignments and examinations, incompletes are not given. Incompletes should be cleared during the next semester or summer a student is in school and cannot be cleared after one year has elapsed. Incompletes are recorded permanently but the I is circled and the permanent grade and semester hours are added when the record is cleared.

WITHDRAWALS

WX, **WP**, or **WF** will be given to students who have been given official permission to withdraw from a course. **WX** is given if the student withdraws before the quality of work can be determined. **WP** is given if the student is passing at the time of withdrawal, and **WF** if failing.

Official permission to withdraw from a course or from the University is given only by the Dean of the University. In case of accident or illness, which would make withdrawal in the regular way impossible, a letter sent to the Dean of the University explaining the situation will be sufficient, provided the library card is returned. This should be done immediately or the student will receive an unofficial withdrawal with the grade of **F** in all courses.

SCHOLARSHIP REQUIREMENT

To receive the degree of Master of Science in Education, a student must have a **B** average.

Credits earned with marks below **C** may not count toward the degree, but are included in computing the average.

Graduate students may not repeat courses to raise grades.

TIME LIMITATION

The maximum time limit for the completion of work for the degree of Master of Science in Education is six years beginning with the date of matriculation at Illinois State Normal University.

RESIDENCE REQUIREMENT

One academic year or the equivalent in summer sessions is the minimum residence requirement. On approval of his Committee on Admissions, a student holding a Bachelor's degree from Illinois State Normal University may present a maximum of eight semester hours of credit from another college or university. A student who holds a Bachelor's degree from another college or university may present six semester hours of graduate work earned at another college or university. Students contemplating such work are advised to have courses approved before taking them in order to insure satisfactory transfer of credits. Six semester hours of graduate extension work may be applied toward the master's degree.

REQUIREMENTS FOR DEGREE

The Master of Science in Education degree is awarded to students who meet the requirements of the fifth or graduate year.

Each candidate for graduation must meet the requirements of one of the curricula outlined below.

Thirty-two semester hours are required, and if these do not include the thesis or research project (course 499 in each department) then the student must prepare two or more creditable research papers or creative projects in courses or areas approved by the Head of the Department.

All grades of incomplete must be removed six weeks before the June graduation date and two weeks before the August graduation date.

The residence and scholarship requirements described above must be met. The time limit during which a student must complete his work is also shown above.

Each candidate for the Master's degree must pass an examination (oral or written, or both) covering the graduate work offered in support of his candidacy. The time, place, and nature of the examination shall be determined by his Advisory Committee.

The graduation fee of ten dollars must be paid six weeks before the date of graduation.

• THESIS OR RESEARCH PROJECT

The thesis or report on a research project is written under the direction of the student's Advisory Committee. This thesis or report must give evidence of ability to think logically, to gather and organize material, to draw and defend conclusions, and to present the results of the foregoing procedures in a creditable manner that will meet recognized standards for such writing. It is understood that the interpretation of this requirement shall be such that it may mean types of projects showing creative ability. Two copies of the thesis or research project must be deposited in the University Library at least ten days before the student expects to take his final examination for the degree. A descriptive note of not more than 30 words and an abstract of not more than 300 words must be approved by the Advisory Committee and must accompany the thesis when it is filed in the Library.

CURRICULA

A minimum of twelve semester hours in education and psychology courses is required. Certain curricula require more, and where this is the case, the requirement is noted under that curriculum.

Thirty-two semester hours are required for the Master of Science in Education degree.

In addition to the requirements indicated below, the student must complete one of the following: (1) a thesis; (2) a research project; or (3) two or more creditable research papers or creative projects in courses or areas approved by the Head of the Department.

Electives on each curriculum may be completed in professional or subject matter courses. Graduate courses are offered in the Departments of Art, Biological Science, Business Education, Education and Psychology, English, Foreign Languages, Geography, Health and Physical Education, Home Economics, Industrial Arts, Mathematics, Music, Physical Science (Chemistry), Social Science, and Speech.

Below are the specific course requirements for each curriculum:

Elementary School Teachers (General)—For students who wish to take work in more than one subject:

- Educ. 401, Introduction to Research
- Educ. 405, Individualization of Instruction
- Educ. 412, Seminar in Curriculum Construction

Elementary School Teachers (Specialized)—For students who wish to specialize in one of the teaching field departments:

- Educ. 401, Introduction to Research
- Educ. 405, Individualization of Instruction
- Educ. 412, Seminar in Curriculum Construction

Teachers for Deaf and Hard of Hearing

- Educ. 401, Introduction to Research
- Educ. 403, Educational Statistics
- Psych. 321, Child Psychology
- Speech 450, Clinical Acoustics
- Speech 451, Seminar in Audiology

Teachers for Mentally Retarded

- Educ. 401, Introduction to Research
- Psych. 321, Child Psychology
- Psych. 425, Individual Mental Testing
- Soc. Sci. 363, Child Welfare Services

Teachers for Partially Sighted

- Biol. Sci. 405, The Sensory Organs
- Biol. Sci. 452—Human Development and Behavior—
Its Biological Basis
- Educ. 401, Introduction to Research
- Psych. 321, Child Psychology
- Psych. 425, Individual Mental Testing

Teachers for Physically Handicapped

- Biol. Sci. 405, The Sensory Organs
- Educ. 401, Introduction to Research
- Psych. 321, Child Psychology

Speech Correction Teachers

- Educ. 401, Introduction to Research
- Psych. 321, Child Psychology
- Speech 318, Stuttering
- Speech. 415, Seminar in Speech Re-education
- Speech 423, Discussion Technique or Speech 424,
Persuasion and Social Control

Secondary School Teachers

- Educ. 327, Introduction to Guidance
- Educ. 401, Introduction to Research
- Educ. 412, Seminar in Curriculum Construction

Community (Junior) College Teachers

- Educ. 401, Introduction to Research
- Educ. 412, Seminar in Curriculum Construction
- Educ. 464, The Community College
- The following are highly recommended but not required:
- Educ. 327, Introduction to Guidance
- Educ. 465, Teaching in the Community College
- Educ. 466, Seminar in the Community College

Supervisors of Instruction

- Twenty semester hours in Education and Psychology
- Educ. 401, Introduction to Research
- Educ. 405, Individualization of Instruction
- Educ. 412, Seminar in Curriculum Construction
- Educ. 415, All-School Activities
- Educ. 418, Evaluation Techniques
- Educ. 420, Improvement of Instruction

Supervisors of Student Teaching in the Elementary Schools

- Educ. 401, Introduction to Research
- Educ. 405, Individualization of Instruction
- Educ. 412, Seminar in Curriculum Construction
- Educ. 418, Evaluation Techniques
- Educ. 442, Laboratory School Experiences
- Educ. 444, Supervision of Student Teachers

Supervisors of Student Teaching in the Secondary Schools

- Twenty semester hours in Education and Psychology
- Educ. 327, Introduction to Guidance
- Educ. 401, Introduction to Research
- Educ. 412, Seminar in Curriculum Construction
- Educ. 420, Improvement of Instruction
- Educ. 442, Laboratory School Experience
- Educ. 444, Supervision of Student Teachers

Guidance and Personnel (Teacher-Counselor)

- Educ. 327, Introduction to Guidance
- Educ. 401, Introduction to Research
- Educ. 418, Evaluation Techniques
- Psych. 301, Advanced Educational Psychology
- Psych. 321, Child Psychology
- Psych. 340, Vocational Counseling
- Psych. 411, Diagnosis and Counseling

Guidance and Personnel (Counselor)

- Educ. 401, Introduction to Research
- Educ. 418, Evaluation Techniques
- Psych. 301, Advanced Educational Psychology
- Psych. 321, Child Psychology
- Psych. 340, Vocational Counseling
- Psych. 411, Diagnosis and Counseling

Superintendent of Schools

- Twenty semester hours in Education and Psychology
- Educ. 401, Introduction to Research
- Educ. 405, Individualization of Instruction or Educ. 420,
Improvement of Instruction
- Educ. 412, Seminar in Curriculum Construction
- Educ. 418, Evaluation Techniques
- Educ. 431, School Administration
- Educ. 434, School Finance
- Educ. 435, School Buildings

Elementary School Principals

- Twenty semester hours in Education and Psychology
- Educ. 401, Introduction to Research
- Educ. 405, Individualization of Instruction
- Educ. 412, Seminar in Curriculum Construction
- Educ. 418, Evaluation Techniques
- Educ. 431, School Administration
- Educ. 434, School Finance
- Educ. 435, School Buildings

Secondary School Principals

- Twenty semester hours in Education and Psychology
- Educ. 327, Introduction to Guidance
- Educ. 401, Introduction to Research
- Educ. 412, Seminar in Curriculum Construction
- Educ. 420, Improvement of Instruction
- Educ. 431, School Administration
- Educ. 434, School Finance
- Educ. 435, School Buildings

COURSES OF INSTRUCTION

For credit purposes, each course is assigned semester hour value, each semester hour representing the equivalent of one class period of lecture or recitation or two periods of laboratory work per week for one semester.

Departments offering graduate courses are listed in alphabetical order. It is not possible to offer all courses each year.

ART

319. Renaissance Art—(3 Sem. Hrs.)

General influences determining the art product in Italy, Germany, Holland, England, and Flanders; related arts. Sources and readings for research. Chronological survey of artistic evidence in architecture, sculpture, painting, and the minor arts.

321. Contemporary Painting—(3 Sem. Hrs.)

Backgrounds for twentieth-century painting. Study of the major movements in modern painting: Impressionism, Post-Impressionism, Dada, Surrealism, social consciousness, and regionalism in painting. Painting today and tomorrow.

322. Contemporary Architecture—(2 Sem. Hrs.)

Backgrounds for twentieth-century architecture. New materials and techniques. The European group: Oud, Le Corbusier, Gropius, and van der Rohe. The Americans: Richardson, Sullivan, and Wright. The International Style. The American home today and tomorrow.

351. Techniques of Painting—(3 Sem. Hrs.)

Advanced work in oil, water color, gouache, egg tempera, or encaustic. survey of readings in the field of painting techniques. *Prerequisite*: Oil Painting 236.

352. Advanced Painting—(3 Sem. Hrs.)

Emphasis upon performance in a particular painting medium, culminating in exhibition or examination before a faculty committee. *Prerequisite*: Oil Painting 236.

371. Advanced Craft Techniques—(3 Sem. Hrs.)

Independent research and experimental work in a craft or crafts of the student's choice with the approval of the instructor. Survey of readings in the field of the particular craft or crafts chosen.

401. Experimental Studies in Art Education—(2 Sem. Hrs.)

Problems in the instruction of art education from the point of view of research and experimentation. Development of new instructional methods and materials, and means of testing their validity. Supervision and administration of art education from kindergarten through the secondary school. Recent research in art education and related areas.

402. Current Practices in Art Education—(2 Sem. Hrs.)

Development of a philosophy of art education. Basic readings in the field of art education, including city and state courses of study. For elementary teachers.

411. Special Projects—(2 to 4 Sem. Hrs.)

Special project or problem in art education, chosen by the student for investigation which will involve study in the improvement of instruction in a particular situation.

415. Art History in the Public School—(2 Sem. Hrs.)

Correlation of art history with social-studies units. Appropriate periods and areas of art history for study at the elementary- and secondary-school levels. The source and organization of illustrative materials for effective teaching of art history in the public school.

417. Art of Greece and Rome—(3 Sem. Hrs.)

General conditions governing artistic productivity. Bibliography and source material, including archeological investigations. Chronological survey of resulting arts: architecture, sculpture, painting, and the minor arts.

472. Advanced Craft Techniques—(3 Sem. Hrs.)

Emphasis upon performance in a particular craft culminating in exhibition or examination before a faculty committee.

482. Psychology of Art Activity—(2 Sem. Hrs.)

Effects of the creative experience on the individual in terms of emotional release, physical coordination, intellectual organization, and social adjustment. Significance of the art product in personal development and community life.

498. Seminar in Art—(2 Sem. Hrs.)

Critical investigation of books and materials of value to the teacher of art. Independent study and research which may culminate in a thesis or research project in Art 499.

499. Thesis or Research Project—(2 to 4 Sem. Hrs.)

Individual study of a specific research problem in the field of art education. The project may result in a paper describing the research undertaken or a creative project in art accompanied by a detailed description of the processes and methods employed.

BIOLOGICAL SCIENCE

300 and 301. Current Readings in Biological Science—(1 Sem. Hr.)

Participation required of all students emphasizing graduate work in the biological sciences. Study and critical analysis of recent advances in the field of biology as reported in current professional journals.

303. Teaching of Science in the Elementary Schools—(3 Sem. Hrs.)

Designed to acquaint the teacher with present-day developments in science in relation to elementary-school situations. Consideration of the content, activities, and approach involved in the teaching of an integrated science program related to the life of the individual for various grade levels.

311. School and Community Sanitation—(3 Sem. Hrs.)

Designed to give a working knowledge of principles of sanitation and methods in prevention of diseases of endemic as well as epidemic nature as they apply to the school, gymnasium, and public gathering places. Laboratory checks on the school's water and milk supplies, lunch room conditions, toilet facilities, and sewage disposal. Environmental factors such as light, temperature, humidity, heating, and ventilation in relation to sanitary control. Methods in the supervision of the janitorial staff in the maintenance of sanitary conditions receive particular attention.

312. Administration of School Health—(3 Sem. Hrs.)

Administration and organization of school health education presented through a correlated program relating all health agencies of the school to services offered by various public and private health departments and foundations of local community, county, state, and nation. Health service procedures and use of statistical materials.

405. The Sensory Organs—(3 Sem. Hrs.)

Anatomy and physiology of sense perception organs of the body, with special attention given to speech, hearing, and sight saving.

421, 422, 423, and 424. Biological Resources—(2, 2, 2, and 2 Sem. Hrs.)

Biological resources of the community and state and the possibilities of their further economic development through employment in teaching, civic improvement, and in the economic life of the local community. Individual problems are considered in the areas of (a) plant physiology, (b) entomology, (c) plant pathology, and (d) genetics.

Students may select from one to four of the areas to be studied in their

relation to biological resources and will receive two semester hours of credit for each area covered. The areas will be designated at 421, 422, 423, and 424.

428. Biological Resources—(5 Sem. Hrs.)

Location, conservation, and study of the natural biological resources of the community and state. Individual problems through intensive application of taxonomic and ecologic principles.

450 and 451. Human Anatomy and Physiology—(3 and 3 Sem. Hrs.)

Biological basis for those who need an understanding of the human body in the various professionalized educational fields. The laboratory work is based directly upon the human body.

452. Human Development and Behavior—Its Biological Basis—(3 Sem. Hrs.)

Studies in endocrinology and neurology planned to meet the needs of students in Education and Psychology, Health Education, and Special Education. The laboratory procedures are based upon anatomical materials from the human as well as animal body and include work in animal experimentation.

453. The Child, A Pediatric Study—(3 Sem. Hrs.)

Physical and mental welfare of the child based upon modern pediatric studies and practices. Designed for the administrator, the school nurse, the elementary teacher and teachers of special education.

499. Thesis or Research Project—(2 to 4 Sem. Hrs.)

Thesis or research project dealing with the solution of a biological problem, preferably one concerned with the use of laboratory and field materials in the realm of teaching.

BUSINESS EDUCATION

310. Consumer Business Problems—(2 Sem. Hrs.)

Application of business knowledge to the solution of practical problems of the consumer. Emphasis on improved living standards through better management of personal finances.

331. Cost Accounting—(3 Sem. Hrs.)

Elements of production costs, including materials, labor, and overhead or burden; the job-cost, the process-cost, and the standard-cost systems; the solution of problems embracing the practical application of costing methods, formulas, and standard costs. *Prerequisite*: 12 semester hours of accounting.

332. Auditing—(3 Sem. Hrs.)

Verification, analysis, and interpretation of accounting records. Auditing principles and procedures are applied to the audits of cash; securities and investments; receivables, inventories, assets, and liabilities; balance sheet; profit and loss statement; and working papers. *Prerequisite*: 12 semester hours of accounting.

340. Problems in Office Management—(2 Sem. Hrs.)

Detecting, analyzing, and solving problems applicable to large or small offices. Principles of office organization and operation are discussed and applied to cases under consideration. Individual and committee investigations are conducted, and selected office managers are called upon to serve as resource persons.

357. Problems in Retail Store Management—(2 Sem. Hrs.)

Investigation and critical discussion of problems frequently encountered in managing a retail store, with special attention given to the small store. Principles and procedures of store management developed as they relate to the cases chosen for analysis. Visits to stores and participation by selected store managers in group discussions are regular parts of the course.

400. Seminar in Business Education—(2 Sem. Hrs.)

Consideration of business education problems of greatest concern to the group and to the individual student by means of conferences and informal discussion.

402. Administration and Supervision of Business Education—(2 Sem. Hrs.)

Fundamental concepts and techniques needed by administrators, supervisors, department heads, and teachers of business education in planning and carrying out realistic programs of business education in junior and senior high schools and junior colleges.

404. Occupational Guidance in Business Education—(2 Sem. Hrs.)

Methods by which a secondary-school teacher may assist students in getting the type of training adapted to their interests, abilities, and aptitudes as an aid to their making satisfactory adjustments in business occupations.

430. Improvement of Instruction in Bookkeeping and General Business Subjects—(3 Sem. Hrs.)

Bookkeeping subjects consisting of first- and second-year bookkeeping, personal record keeping, general clerical practice, and clerical office practice. General business subjects will consist primarily of general business training, business law, business arithmetic, commercial geography, and consumer education. The instructor will draw from his own experiences; from those of the group; from the writings of authorities in the field; and, occasionally, from the ideas of visiting lecturers and demonstrators. *Prerequisite:* Teaching experience or student teaching.

440. Improvement of Instruction in Secretarial Subjects— (3 Sem. Hrs.)

Secondary school subjects included are vocational typewriting, personal typewriting, shorthand, transcription, business English, and secretarial office practice. The instructor will draw from his own experiences; from those of the group; from the writings of authorities in the field; and, occasionally from the ideas of visiting lecturers and demonstrators. *Prerequisite:* Teaching experience or student teaching.

450. Improvement of Instruction in Distributive Education—(3 Sem. Hrs.)

Organization, administration, and supervision of programs of distributive education, with emphasis on the cooperative, part-time programs. Methods, materials, and equipment in teaching salesmanship, retailing, and other courses of training for distributive occupations.

499. Thesis or Research Project—(4 Sem. Hrs.)

Independent study culminating in a thesis or carefully written report on a research project.

EDUCATION AND PSYCHOLOGY

Education

305 and 306. Readings in Educational and Psychological Research—(1 and 1 Sem. Hr.)

Study and evaluation of current research dealing with the student's major field of interest. The course acquaints the student with research in all phases of education and psychology from the nursery school through the community college.

307. Analysis and Correction of Reading Disability—(3 Sem. Hrs.)

Standardized and informal tests, analysis of test results, and differentiated reading programs based on test findings. Opportunities are provided for administering informal and standardized instruments designed to determine the extent of retardation and the type of reading disability. Practice is given in analyzing test findings and in recommending psychological and pedagogical procedures that will provide for the specific needs of subjects with reading difficulties. *Prerequisite:* Education 107; 205 or teaching experience.

308. Recent Research on Reading—(3 Sem. Hrs.)

Analysis of recent research on reading at the elementary, secondary, and college levels together with its implications in the areas of modified practices in the teaching of reading, materials of instruction, and teacher preparation.

310. The Junior High School—(2 Sem. Hrs.)

Function of the junior high school, characteristics and needs of early adolescents, articulation with the elementary and high schools, traditional and core curriculums, organization, administration, and evaluation of programs for early adolescents.

327. Introduction to Guidance—(2 Sem. Hrs.)

Aims, needs, development, and present status of guidance in secondary schools. Means of learning individual capacities, special abilities, and interests. The giving of vocational information. Emphasizes the role of the classroom teacher as well as the organization and administration of guidance activities.

331. Public Relations for Education—(2 Sem. Hrs.)

Analysis of the need for public relations and study of programs for education. Wide use of visual aids and community resources. Work of the individual student will focus on practical problems related to his area of specialization. Ways of evaluation will be included.

342. Individualized Professional Experience—(2 or 3 Sem. Hrs.)

Provides a wide variety of experiences to meet the individual needs of graduate students by working with elementary and high school students, parents, staff members, and school and community groups, and in other activities that will constitute the professional and social experiences adapted to the needs of the individual graduate student.

351. Problems of the Brain Injured—Summer only (2 Sem. Hrs.)

Problems of diagnosis, psychological evaluation and educational adjustments needed by the cerebral palsied. Relationship to other therapies. Observation and planned participation in a group of cerebral palsied. For experienced teachers, who wish to specialize in working with the cerebral palsied.

353. Education of Gifted Children—(2 Sem. Hrs.)

Organization of the program for the education of gifted children. Methods of identification, curriculum adjustments, creative activities, guidance, appraisal of progress, and parent relationships. For teachers, administrators and personnel workers.

355. Workshop on Curriculum and Methods for the Mentally Retarded—Summer only (3 Sem. Hrs.)

Designed to aid students in the development of curriculum and methods suited to their particular problems with the mentally retarded. For principals, supervisors, and teachers now engaged in the field, or those having a background of psychology and mental deviation, contemplating the field. Attention given to organization and curriculum at elementary and secondary level; methods and materials adapted to age groupings; pupil guidance and evaluation; study of job outlets and work try-outs or other subjects of student's choice.

359. Workshop for Teachers of Partially Sighted—Summer only (3 Sem. Hrs.)

Individual teaching problems. Review of recent educational literature and research on impairment of vision, adaptation of instructional materials to the conservation of vision, curriculum adjustments, personality problems, guidance, and other problems may be considered in the workshop. For teachers experienced in work with partially sighted.

360. History of Education—(3 Sem. Hrs.)

Development of educational systems and programs. Emphasis on the historical perspective of modern educational problems.

401. Introduction to Research—(3 Sem. Hrs.)

Selection of a research problem, collection of data, types of research, the research report, and use of the library in connection with the research problem. Elements of statistics are introduced. Provides a background for the preparation of the thesis or research project. Enables the student to become an intelligent consumer of the products of educational research.

403. Educational Statistics—(3 Sem. Hrs.)

Basic statistics for workers in education and psychology. Advanced study of measures of central tendency, including the mean, median, and mode, as well as of measures of dispersion. Correlation techniques will be studied extensively as will also newer statistical methods. Emphasis will be placed on the use of statistical techniques studied and on statistical interpretation. *Prerequisite:* Introduction to Research 401 or concurrent registration.

405. Individualization of Instruction—(3 Sem. Hrs.)

Methods of making practical adaptations in the school program to aid the physical, emotional, and educational development of individual children within a school group; selection and organization of materials and methods of individual instruction in the different subject areas; development and interpretation of case studies; practice in the techniques of recognizing and diagnosing the specific needs of children in the elementary school. *Prerequisite:* Education 108 or Psychology 115 (and any assigned by the student's Graduate Advisory Committee).

412. Seminar in Curriculum Construction— (3 Sem. Hrs.)

Principles and practices of curriculum construction. Extensive practical experience in constructing a course of study. Effect of research upon the curriculum as a whole and in different subjects; techniques for curriculum building from the nursery school through the community college; critical examination and evaluation of city, county, and state courses of study; and techniques of conducting a program of curriculum study, revision, and evaluation.

415. All-School Activities—(2 Sem. Hrs.)

Organization of life in the elementary school in ways that give practice in democratic relationships and procedures; parent and pupil participation in school planning; purposes and procedures for developing such all-school activities as assemblies, school paper, clubs, school council, uses of radio, and recreational program. School participation in suitable community projects.

417. Organization and Administration of Extraclass Activities—(2 Sem. Hrs.)

Functions, underlying principles, and cautions to be observed in the organization and administration of extraclass activities in the secondary school.

418. Evaluation Techniques—(2 Sem. Hrs.)

Development of basic principles underlying programs of evaluation in the elementary schools. Includes development and use of standardized and teacher-made tests; self-rating devices; conference techniques; and methods of recording and using data. Experienced teachers will have an opportunity to develop evaluation programs for schools in which they teach.

420. Improvement of Instruction—(2 Sem. Hrs.)

Principles underlying the improvement of instruction. Emphasizes techniques of improving instruction, including faculty meetings, class visitations, intervisitation, supervisory conferences, bulletins, research, testing programs, and directed study. Proposes means of evaluating supervisory practices.

431. School Administration—(3 Sem. Hrs.)

Selection, retention, and improvement of teachers. Curricula, records, school law, interpreting the school to the public, and other problems taken from the necessary experiences of public-school administrators.

434. School Finance—(2 Sem. Hrs.)

Financial accounting and reporting, budgeting, unit costs, depreciation, insurance, school revenues, and other problems of school finance.

435. School Buildings—(2 Sem. Hrs.)

School sites, buildings, and equipment, with emphasis on planning of building programs. Includes visitation of buildings.

441. Laboratory School Administration—(2 Sem. Hrs.)

Development of laboratory schools; principles governing laboratory experiences to be required; provision for demonstration, participation, and ex-

perimentation; coordination between theory and academic departments; admission and induction into student teaching; function of campus and off-campus laboratory schools; internship programs; public relations programs; evaluation of the laboratory school. Students will be provided experience in laboratory schools. *Prerequisite:* Teaching experience.

442. Laboratory School Experience—(2 Sem. Hrs.)

Experience in laboratory schools in helping to supervise student teachers, observing and participating in laboratory-school activities, assisting with curriculum building, conferring with student teachers, and applying principles and theories developed in other courses. *Prerequisite:* Laboratory-School Administration 441 and Supervision of Student Teachers 444 or concurrent registration.

444. Supervision of Student Teachers—(2)

Responsibilities of the supervisor of student teachers, objectives and principles of a student-teaching program, principles and methods of supervising student teachers, methods of conducting conferences with student teachers, and the evaluation of the growth and development of the student teacher and the student-teaching program. Students taking the course will work in the laboratory schools of the University. For experienced teachers preparing to do critic teacher work in laboratory schools.

450. Administration of Special Education (2 Sem. Hrs.)

Methods of discovering exceptional children. Organization and administration of special classes and special rooms. Teacher preparation, legal aspects, equipment, transportation, cooperating agencies, and public relations in the education of exceptional children.

452. Instructional Procedures for Maladjusted Pupils—(3 Sem. Hrs.)

Organizing and administering laboratory procedures for maladjusted pupils and educationally retarded. Emphasis on reading abilities. Selection and use of learning materials. Research pertaining to personality factors as related to school success. Supervised laboratory work with children. *Prerequisite:* Laboratory Reading Methods 205, and Child Growth and Development 108 or Child Psychology 321 or concurrent registration.

455. Arts in the Education of Exceptional Children—(3 Sem. Hrs.)

Role of the arts in the education of exceptional children. Emphasis upon the values of creative experiences in art, industrial arts, home arts, and the possibilities of interrelating these experiences in the school program. Opportunity for observation and participation in classroom situations.

464. The Community (Junior) College—(3 Sem. Hrs.)

History and development, functions, curricula, instructions and personnel problems of the community college. The community college is studied in relation to other units of the educational system.

465. Teaching in the Community (Junior) College—(2 Sem. Hrs.)

Techniques and methods of teaching on the community college level; problems of articulating the community college and the high school; special qualifications needed for the community college teacher; his preparation and training; the use of examinations, marks, and records; specific problems and methods of the classroom peculiar to the various teaching fields.

466. Seminar in the Community (Junior) College—(2 Sem. Hrs.)

Specific problems related to the community college, such as, problems of guidance and personnel work; sponsorship of out-of-class activities; improvement of instruction; and curriculum problems. The exact content of the course may vary from semester to semester. The problems will be selected, in part, according to the needs and interests of the students. *Prerequisite:* The Community College 464 or experience in teaching in the community college.

472. Audio-visual Program of the School—(3 Sem. Hrs.)

Purchasing equipment and organizing a program; setting up standards of selection and evaluation; supervising the use of all types of audio-visual instructional materials; analyzing psychological and educational research with audio-visual implications; studying the theory of communication through verbal and multi-sensory media. Introduction to cartograms, collages, pictographs, analogs, dioramas, macrophotography, bradykinetics.

495. Internship (3 to 8 Sem. Hrs.)

Opportunities to work with principals, superintendents, teachers, and lay groups in public school situations. Of special benefit to inexperienced students and for those preparing for administrative work in public schools. Assignments are made by the Dean on recommendation of the student's Graduate Advisory Committee at least two months prior to entering upon internship.

499. Thesis or Research Project—(2 or 3 Sem. Hrs.)

Independent study culminating in a thesis or a carefully written report on a research project.

Psychology

301. Advanced Educational Psychology—(3 Sem. Hrs.)

Appreciation and understanding of the experimental and statistical approaches to the study of the learning human being. Laboratory work will be the basic procedure. *Prerequisite*: Educational Psychology 115.

311. Psychology of the Mental Deviate—(3 Sem. Hrs.)

Personality, general behavior patterns, and educational possibilities of mentally deficient and gifted children. *Prerequisite*: Functional Anatomy 145, and Educational Psychology 115 or Child Growth and Development 108.

321. Child Psychology—(3 Sem. Hrs.)

Study of available research on the motor, mental, and emotional development, growth of understanding, and personality of children during pre-adolescent and adolescent years; application to problems of guidance.

322. Learning—(3 Sem. Hrs.)

Experimental data bearing on the problem of human learning; modern theories of learning; an attempt to integrate these theories in a consistent viewpoint of value to the teacher.

325. Motivation—(2 Sem. Hrs.)

Experimental study of drives, social motives, theories of motivation, practical applications.

340. Vocational Counseling—(2 Sem. Hrs.)

Accumulating and classifying information about jobs and job opportunities, determining vocational aptitudes, counseling for possible placement.

411. Diagnosis and Counseling—(3 Sem. Hrs.)

Training in interviewing, making case histories, clinical diagnosis, and instruction in some of the basic techniques in psychotherapy.

425. Individual Mental Testing—(3 Sem. Hrs.)

Training in individual mental testing with emphasis on the Binet and the Wechsler. *Prerequisite*: Mental Hygiene 234.

432. Practicum in Diagnosis and Counseling—(3 Sem. Hrs.)

Clinical practice in the Psychological Counseling Service. Gives students training in individual psychological diagnosis. Twelve hours per week *Prerequisite*: Diagnosis and Counseling 411.

499. Thesis or Research Project—(2 or 3 Sem. Hrs.)

Independent study culminating in a thesis or carefully written report on a research project.

ENGLISH

301. Development of the English Language—(3 Sem. Hrs.)

Historical approach to the development of the English language. Attention to Anglo-Saxon, Middle English, foreign influences, and modern trends. Designed to help the high-school teacher discover the reasons behind the meanings and forms of modern words.

325. Nineteenth-Century English Prose—(2 Sem. Hrs.)

Chief prose writers of the century and their contribution to the thought of the present time.

330. Nineteenth-Century American Literature—(2 Sem. Hrs.)

Concentration upon the great literary figures to the middle of the century, especially those usually taught in high school—Poe, Hawthorne, Emerson, Melville, Longfellow, and Whitman. Designed to show how these men represent important movements in American life and thought.

331. Twentieth-Century American Literature—(2 Sem. Hrs.)

Wide reading in the work of recent American authors in an attempt to see directions in American thought and expression.

334. Literature of the Midwest—(2 Sem. Hrs.)

Designed to acquaint teachers with the chief writers of the midwest area.

348. Problems in the Teaching of English—(2 Sem. Hrs.)

Critical examination of current practice and research in the teaching of language, literature, and composition in the high school. Designed to aid the teacher in meeting individual problems.

402. Literary Criticism—(2 Sem. Hrs.)

Survey of critical and esthetic theory designed to aid the prospective teacher in evaluating ancient and modern literature, in broadening and refining literary tastes, and in conveying to the students a knowledge of the purposes of literature.

411. Chaucer—(2 Sem. Hrs.)

Life of Chaucer as revealed through his active participation in the practical affairs of his time. Careful reading of *The Canterbury Tales*, with attention to the special problems involved in teaching Chaucer effectively in the high school.

416. Milton and His Contemporaries—(3 Sem. Hrs.)

Chief prose and poetry of Milton. Parallel reading from contemporary writers.

418. Elizabethan Non-Dramatic Literature—(2 Sem. Hrs.)

Chief prose and poetry of the period, emphasizing their influence on the forms of literature now studied in the high school.

419. Shakespeare—(3 Sem. Hrs.)

An approach to Shakespeare through sources, textual problems, criticism, and modern scholarship. Particular stress on the plays usually read in high school.

421. Eighteenth-Century English Literature—(2 Sem. Hrs.)

Emphasis on the works of Dryden, Pope, Swift, Johnson, and Goldsmith. Attention to the development of present-day social and political ideas as portrayed in the writings of the eighteenth century.

426. Nineteenth-Century English Poetry—(3 Sem. Hrs.)

Major literary movements and representative poets of nineteenth-century England.

441. World Literature—(3 Sem. Hrs.)

Readings in foreign literature in translation, selected to meet the needs of the student.

498. Seminar—(2 Sem. Hrs.)

Study of problems peculiar to literary history, English language, and the teaching of English.

499. Thesis or Research Project—(3 Sem. Hrs.)

Independent study culminating in a thesis.

FRENCH

401. Moliere—Summer only (3 Sem. Hrs.)

Major comedies of Molière, together with some of the farces and *comedies-ballets*.

403. Readings in Contemporary French Literature—Summer only (3 Sem. Hrs.)

Trends in contemporary prose, with readings from the novel and the drama.

GEOGRAPHY

301. Climates of the Continents—(2 Sem. Hrs.)

Chief elements of climate by continents. The course is based upon the student's knowledge of meteorology and climatology and the continental studies. Much attention to synthesis and generalizations of world climates and climatic classifications.

303. Techniques of Field Work—(3 Sem. Hrs.)

Techniques of mapping and interpretation of the phenomena of the natural and cultural landscapes. Most of time spent in the field doing original study and mapping.

305. Industrial Geography—(3 Sem. Hrs.)

American industries and their distribution as related to their natural environmental settings. American industries in world patterns.

307. Geography of Latin America—(3 Sem. Hrs.)

Intensive study of some of the major geographic problems of Latin America. *Prerequisite:* Geography of Middle America 211 or Geography of South America 215.

308. Organization of Instructional Materials in Geography (2 Sem. Hrs.)

Practical experience in selection and organization of geographic materials for instructional purposes. Basic principles and professional techniques. Nature of distinctly geographic understandings. Individual work in area of student's choice.

310. Field Surveys in Western Europe—Summer only—(2 to 8 Sem. Hrs.)

Studies of selecting rural and industrial districts. Experiences with intensive and reconnaissance types of geographic investigation. Emphasis on participation in actual field surveys as an approach to understanding the lands and peoples of Western Europe.

320. Resources of the Continents—(3 Sem. Hrs.)

Survey of resource patterns of the continents. Detailed study of the continent of the student's choice. Much individual work. For elementary teachers.

327. Cartography and Graphics—(3 Sem. Hrs.)

Graphic representation of statistical data. Chief types of graphs and their use on the various maturity levels. Map projections, scales, symbolisms, dot maps, and their use.

401. Pro-Seminar—(3 Sem. Hrs.)

Philosophy of geography that distinguishes it from the other social sciences on the one hand and from the related earth sciences on the other. The study of what constitutes good geographic writing. Training in research and methods and practices in writing.

403. Physiography of North America—(3 Sem. Hrs.)

Physiographic regions of North America. Emphasis placed upon the development of surface features of each area as a background for present geographic patterns of that region. One two-day field trip required.

405. Geography in Education—(2 Sem. Hrs.)

Historical development of the science and teaching of geography. Modern geography and its contribution to general education. Evaluation of current teaching materials.

406. Urban Geography—(3 Sem. Hrs.)

Importance of urban agglomerations and the problems presented by them. A field study of a typical urban center such as Bloomington-Normal, and type studies of the great urban centers in the United States and the world. Attention to the cultural pattern imposed upon the natural landscape features.

411. Geography of Asia and the Pacific Realm—(3 Sem. Hrs.)

Intensive study of some geographic problems of Asia or the Pacific. *Prerequisite:* Geography of the Pacific Islands 209 or Geography of Asia 220.

412. Problems in Conservation—(3 Sem. Hrs.)

Investigation of one or more problems relating to conservation. *Prerequisite:* Conservation of Natural Resources 219.

499. Thesis or Research Project—(3 Sem. Hrs.)

Selecting the thesis problem and blocking out plans of study and development. Methods of research and interpretation. Writing and criticism.

HEALTH AND PHYSICAL EDUCATION

301. Evaluation Techniques in Physical Education—(3 Sem. Hrs.)

Historical background of measurement in physical education; selection and evaluation of available measures; statistical techniques commonly used in physical education; construction and uses of tests; administering the testing program; interpretation and application of results. Each student will be required to do a portion of a testing project.

304. Teaching of Sport Activities—(2 Sem. Hrs.)

Teaching methods, officiating, organization, safety precautions, and selection and care of equipment for selected sports.

308. Teaching of Rhythmic Activities—(2 Sem. Hrs.)

Evaluation of dance methods; familiarity and appraisal of sources of dance materials; practice in advanced techniques in dance; possibilities in dance accompaniment; opportunities for teaching various types of dance in actual school situations.

309. Studies in Dance—(2 Sem. Hrs.)

Progressive experiences in individual and group composition; study of problems in planning and direction of dance recitals and demonstrations; organization and supervision of dance clubs and extracurricular dance activities; theory of dance; studies in design and rhythm.

320. Organization and Administration of Recreation—(3 Sem. Hrs.)

Factors concerning the organization and administration of a recreation program: course designed to meet the needs of the administrators of town, community, or school recreational programs.

322. Workshop in Recreation and Camping—(3 Sem. Hrs.)

Preparation of materials for use in recreation and camping situations; sources for obtaining materials and information; cooperative work among various departments and organizations. Includes crafts, music, story telling, and dramatics.

324. Camping Administration—(2 Sem. Hrs.)

Functions and principles of camp administration in organizational and private camps.

340. Problems in Health, Physical Education, and Recreation—(2 Sem. Hrs.)

Consideration of current problems in these fields as they affect the teacher of physical education; guidance in individual and group solution of selected professional problems.

341. Problems in Administration of Sports—(3 Sem. Hrs.)

Critical analysis of the current problems that confront the director of physical education in the organization and administration of sports activities with special reference to national, state, and local control.

400. Seminar in Health, Physical Education, and Recreation—(2 Sem. Hrs.)

Reports and evaluation of selected research studies, proposed problems, and theses plans; review of recent writings; practice in professional discussions and in committee projects.

402. Foundations of Modern Physical Education—(3 Sem. Hrs.)

Functions of modern physical education and the underlying factors which influence it.

404. Applied Physiology—(2 Sem. Hrs.)

Application of human physiology to the teaching of physical education; the effects of exercise on the heart, lungs, circulation, and respiration; discussion of current studies pertinent to tests of physical efficiency.

406. Mechanical Analysis of Sports—(2 Sem. Hrs.)

Principles of physics applied to body movement; analysis of body positions and modes of locomotion; muscular and mechanical analysis of selected sports skills.

408. Advanced Corrective Procedures—(2 Sem. Hrs.)

Recognition of postural deviations and muscle weaknesses by isolating muscle action in selected testing positions; laboratory practice in postural examination and correction.

412. Supervision of Physical Education—(2 Sem. Hrs.)

Practice in the techniques of supervision of physical education in elementary and secondary schools; in-service training of the classroom and physical education teacher; relationships with teachers, administrators, and community.

499. Thesis or Research Project—(2 to 4 Sem. Hrs.)

Independent study culminating in a thesis or a carefully written report on a research or creative project.

HOME ECONOMICS

301. Evaluation in Home Economics—(2 Sem. Hrs.)

Examination of various concepts of evaluation; basic principles involved. Study of methods and techniques. Opportunity to work on individual problems.

304. Advanced Home Management and Household Equipment—(3 Sem. Hrs.)

Family planning, organizing, directing and co-ordinating of material and human resources to achieve predetermined conceptions of a satisfactory home.

308. Seminar in Family and Child Development—(3 Sem. Hrs.)

Fundamental and current problems regarding the child and the family. Students will obtain practice in problem solving and committee projects.

312. Advanced Problems in Food Investigation—(3 Sem. Hrs.)

A survey of methods used in the experimental study of foods and food preparation. Opportunity for individual and small group investigations.

401. Supervision of Student Teaching in Home Economics—(3 Sem. Hrs.)

Responsibilities of the supervisor of student teaching, the objectives of the student teaching program in Home Economics, techniques of supervision, and evaluation of student teaching. Practical experience in a student teaching program and preparation of supervisory materials. *Prerequisite:* Teaching experience.

404. Curriculum Development in Home Economics—(3 Sem. Hrs.)

Principles of curriculum development as applied to Home Economics. Attention given to organization, methods, materials and evaluation in relation to type of program and age level. Opportunity to work on individual or group problems.

409. Recent Trends in Home Economics—(2 Sem. Hrs.)

Developments in the field as reflected in more recent practices, survey of methods and materials being used, and review of current professional literature.

410. Family Housing Problems—(3 Sem. Hrs.)

Consideration of current trends and problems in housing with emphasis on family living as related to aesthetic, social, economic, and managerial aspects.

414. Special Problems in Clothing—(3 Sem. Hrs.)

Individual problems in clothing construction.

499. Thesis or Research Project—(2 to 4 Sem. Hrs.)

Independent study culminating in a thesis or a carefully written report on a research project.

INDUSTRIAL ARTS

300. Contemporary Industrial Arts Education—(2 Sem. Hrs.)

Prominent leaders and analysis of trends in industrial arts education.

310. Industrial Arts in the Elementary School—(2 Sem. Hrs.)

Educational principles underlying industrial arts and their application in the elementary activity program.

321. Principles of General Shop Organization—(2 Sem. Hrs.)

Organizing and teaching industrial arts in the general shop.

332. Materials and Methods of Teaching Safety—(2 Sem. Hrs.)

Materials and safety measures appropriate for schools, recreation, and traffic.

400. Foundations of Industrial Education—(3 Sem. Hrs.)

Underlying movements and philosophies which have influenced the development of industrial education.

402. Evaluation Techniques in Industrial Education—(3 Sem. Hrs.)

Historical background of measurement in industrial education; examination of objectives and methods; evaluation of student abilities and growth; evaluation of housing and equipment.

403. Seminar in Industrial Arts—(2 Sem. Hrs.)

Critical evaluation of research studies, problems, and thesis plans.

404. Special Projects in Industrial Arts—(3 Sem. Hrs.)

Project selection, individual construction, and mass production techniques and problems in school and industry. Some laboratory work will be done.

405. Improvement of Instruction in Industrial Arts—(3 Sem. Hrs.)

Objectives, content, and techniques for enhancing the teaching of industrial arts.

411. Occupational and Job Analysis—(2 Sem. Hrs.)

Techniques and procedures of analyzing industrial occupations and jobs into their basic elements for instructional purposes.

431. **Organization and Administration of Industrial Education**—(3 Sem. Hrs.)
 Consideration of the difficulties confronting the teacher and administrator and the methods for their solution.
499. **Thesis or Research Project**—(2 to 4 Sem. Hrs.)
 Independent study culminating in a thesis or a carefully written report on a research project.

LATIN

301. **History of Latin Literature**—(3 Sem. Hrs.)
 Development of Latin literature from its beginning to the close of the Republic. Translation of representative selections from the writers of this period.
302. **History of Latin Literature**—(3 Sem. Hrs.)
 Special attention to the works of writers of the Empire period.
401. **Suetonius' Lives of the Caesars**—(2 Sem. Hrs.)
 Translation of the biographies of some of the most important of the Caesars and a study of the place of the Caesars in history. Designed to give the teacher of Latin a good historical background.
405. **The Elegiac Poets**—(2 Sem. Hrs.)
 Readings from the Roman elegiac poets; the influence of these poets upon English and American literature.
410. **Advanced Latin Prose Composition**—(2 Sem. Hrs.)
 Application of the major principles of Latin grammar and syntax in writing connected discourse based on different Latin authors as a means of developing facility in the use of Latin forms and constructions.
415. **Vergil's Georgics and Eclogues**—(2 Sem. Hrs.)
 Reading of the Georgics and Eclogues of Vergil; the style of Latin pastoral and didactic poetry.
421. **History of the Latin Language**—(2 Sem. Hrs.)
 Development of the Latin language with attention directed to the grammatical forms and syntactical usage in selected writings of the early classical, and post-classical authors. Some treatment of the relation of the various Indo-European languages to each other, the place of Latin and English among these languages, and the history of Latin elements in English.
424. **Problems in the Teaching of Latin** (2 Sem. Hrs.)
 Aims, subject matter, and methods of the teaching of Latin in the light of new emphases in the high-school curriculum. Critical examination of current high-school texts, preparation of syllabi and tests, and a study of audio-visual materials available for Latin classes.
499. **Thesis or Research Project**—(1 or 2 Sem. Hrs.)
 Independent study culminating in a thesis or a carefully written report on a research project.

MATHEMATICS

- Students with a teaching field in Mathematics must take Mathematics 320, 421, and 422.
314. **Theory of Equations**—(2 Sem. Hrs.)
 Special methods of solving higher equations, symmetric functions, and factorization theorems. *Prerequisite:* Integral Calculus 116.
320. **History of Mathematics**—(3 Sem. Hrs.)
 History of modern mathematics and recent developments. *Prerequisites* Integral Calculus 116.

330. Mathematics of Finance—(2 Sem. Hrs.)

Application of mathematics in various fields of finance, with emphasis on problems of investments and insurance. *Prerequisite*: College Algebra 114.

340. Linear Differential Equations—(2 Sem. Hrs.)

Methods of solutions of linear differential equations of first and second orders. *Prerequisite*: Integral Calculus 116.

360. Field Work in Mathematics—(2 Sem. Hrs.)

Mathematical applications designed to acquaint the teacher of junior and senior high school geometry or trigonometry with practical operation of transit, level, plane table, sextant, angle mirror and alidade. Applications are drawn from problems associated with surveying, leveling, map making, and various examples of indirect measurement. *Prerequisite*: Mathematics 116.

401. Special Problems in the Teaching of Arithmetic—(2 Sem. Hrs.)

Studies and experimentation in methodology. *Prerequisite*: Foundations in Arithmetic 201.

412. Projective Geometry—(2 Sem. Hrs.)

Theory of descriptive geometry and elementary projective geometry. *Prerequisite*: College Geometry 211.

421. Special Problems in the Teaching of High-School Algebra—(3 Sem. Hrs.)

Experimentation in the teaching of high-school algebra.

422. Special Problems in the Teaching of High-School Geometry—(3 Sem. Hrs.)

Experimentation in the teaching of high-school geometry.

423. Teaching and Supervision of Secondary School Mathematics—(2 Sem. Hrs.)

Administrative and teaching problems of concern to critics in a laboratory school, heads of departments, and supervisors of secondary school mathematics; prevalent practice, research, and national committee recommendations for provision of professional, vocational, and general education needs of secondary school pupils; critical evaluation of prevalent testing programs and their effect upon mathematical achievement.

440. Applied Differential Equations—(2 Sem. Hrs.)

Application of differential equations in applied science as recommended by the American Mathematical Association. *Prerequisite*: Integral Calculus 116.

450. Mathematics of Statistics—(2 Sem. Hrs.)

Development of the mathematics of statistics; introduction to the theory of probability; curve fitting; frequency curves; distribution; measures of dispersion; the theory of correlation. *Prerequisite*: Integral Calculus 116.

499. Thesis or Research Project—(2 to 4 Sem. Hrs.)

Thesis or research project dealing with a specific problem in the teaching of mathematics.

MUSIC

301. Form and Analysis in Music—(2 Sem. Hrs.)

Structure of classical music ranging from simpler compositions as found in piano works to more elaborate material as found in major sonatas and symphonies.

302. Form and Analysis in Music—(3 Sem. Hrs.)

Continuation of Music 301 with emphasis on harmonic structure.

305. Composition—(3 Sem. Hrs.)

Free composition in larger forms with opportunities for performance of original works for voices, instrumental combinations or full orchestra.

310. Music of Western Europe—Summer Only—(2-8 Sem. Hrs.)

Field work in Great Britain, France, Germany, Austria, Switzerland, and Italy. Part of the regular summer session and runs concurrently with it. Time will be spent in the field attending leading music festivals and visiting places of musical significance. Intensive study conducted prior to departure, on board ship, and/or between travels. Examinations will be given during return trip. *Prerequisite:* Approval of Instructor.

315. Music in America—(3 Sem. Hrs.)

Indigenous and borrowed influences in American music from the time of the early settlements through periods of expansion to present day activities. A background of American musical style and culture and an understanding of present trends will be developed.

351. The Opera—(2 Sem. Hrs.)

Historical development of the opera with emphasis on stylistic elements and trends of the various periods. Study of the plots and music through recordings, piano scores, full scores as well as live performances.

353. History of Musical Instruments—(2 Sem. Hrs.)

Evolution of musical instruments from the origins to the present, with particular regard to music and general culture. The development of primitive, Oriental and Western instruments.

360. Psychology of Music Education—(3 Sem. Hrs.)

Investigation of the psychological attributes of sound and their effects upon the behavior of the human organism.

361. Tests and Measurements in Music—(3 Sem. Hrs.)

Bases upon which aptitude and achievement in music have been and may be measured.

400. Seminar in Music Education—(2 Sem. Hrs.)

Individual and group study of trends, practices, and problems in the field of music education.

402. Teaching of Theory—(2 Sem. Hrs.)

Analysis of current practices in the teaching of theory; techniques of teaching theory during the regular rehearsal of performing groups and an analysis of source material. Project: the development of a practical course in theory as it relates to the student's own teaching situation. *Prerequisite:* Teaching experience or advanced standing in theory.

404. Chromatic Harmony—(3 Sem. Hrs.)

Practical experience in writing polyphonically and homophonically using various kinds of embellishments and chromatically altered tones. A major creative project is required. This may be in the form of an original composition, arrangement, or transcription.

405. Special Projects—(2 Sem. Hrs.)

Investigation of one or more selected topics in music performance and/or learning including the relationship and application of the findings to music education.

410. Experimental Studies—(3 Sem. Hrs.)

Experimental method as applied to problems of music learning, including a survey of research of music education and related areas. An individual experimental term project will be required.

413. Choral Techniques—(2 Sem. Hrs.)

Clinical aspects of the chorus rehearsal, contemporary choral practices, repertoire and source material, interpretation and program building. *Prerequisite:* Courses in Conducting or practical experience.

424. Contemporary Practices in Music Education—(3 Sem. Hrs.)

Point of view in music education, potentialities of music as an agency for human growth, place and function of music in the curriculum, organization of

musical experience and materials for effective learning, techniques of evaluation in music education, supervision and administration of music education from kindergarten through junior college, and music education in the community.

425. Music Education in the Elementary School—(3 Sem. Hrs.)

Point of view in music education, potentialities of music as an agency for human growth, place and function of music in the curriculum, organization of musical experiences and materials for effective learning, and music education in the community. Designed for classroom teachers and principals of elementary schools.

426, 427, 428, 429. Applied Music—(2 Sem. Hrs.)

Intensive study in certain media of performance.

436. Conducting—(2 Sem. Hrs.)

Critical examination of scores with reference to tempo, phrasing, nuance, balance, timbre, and the baton techniques involved. For directors of experience.

452. The Symphony—(3 Sem. Hrs.)

Survey of the symphony orchestra and symphonic literature from early 18th century to the present day. Study through recordings, orchestral scores and piano scores.

456. Instrumental Techniques—(3 Sem. Hrs.)

Problems and procedures in developing instrumental classes and organizations.

465. Sensory Integration in Music Learning—(2 Sem. Hrs.)

Practical considerations necessary for the operation and use in the classroom of audio-visual aids to music learning.

466. Tonal Measurement—(3 Sem. Hrs.)

Physical measurement of musical tone in relation to the problems of the classroom, the rehearsal, and the performance.

499. Thesis or Research Project—(2 to 4 Sem. Hrs.)

Individual investigation of a specific problem in the field of music education. This project may be an organized scientific contribution or a comprehensive analysis of theory and practice in a specific area within the field.

PHYSICAL SCIENCE (Chemistry)

310. Organic Chemistry—(3 Sem. Hrs.)

Survey of organic chemistry for students who have had four to six hours of undergraduate organic chemistry. *Prerequisite:* Organic Chemistry 207.

312. Qualitative Organic Analysis—(3 Sem. Hrs.)

A course in the identification of organic compounds. *Prerequisite:* Organic Chemistry 212 or 310.

321. Physical Chemistry—(5 Sem. Hrs.)

First of a series in theoretical chemistry dealing with the properties of gasses, liquids, solids, solutions, elementary thermodynamics, and colloids. *Prerequisite:* General Physics 151, Quantitative Analysis 204, and Integral Calculus 116.

324. Physical Chemistry—(5 Sem. Hrs.)

Continuation of Physical Science 321, embracing equilibrium, chemical kinetics, electrical conductance, electrolytic equilibrium, hydrolysis, polarization, photo-chemistry, radioactivity, atomic structure, and quantum theory. *Prerequisite:* Physical Chemistry 321.

341. Advanced Inorganic Chemistry—(3 Sem. Hrs.)

Interpretation and discussion of the subject matter of inorganic chemistry from the viewpoint of modern theory. *Prerequisite:* Quantitative Analysis 204.

342. Descriptive Inorganic Chemistry—(3 Sem. Hrs.)

Inorganic free radicals, carbonyls, metallo-organic compounds, hydrides, non-aqueous solution. *Prerequisite:* Quantitative Analysis 204.

351. Instrumental Methods of Analysis—(3 Sem. Hrs.)

Analysis by means of optical and electrical principles and instruments, including methods as colorimetry, nephelometry, spectrophotometry, electro-metric titrations, polarography, etc. *Prerequisite:* Physical Science 151 and 204, Mathematics 116.

401. History of Chemistry—(2 Sem. Hrs.)

Development of chemistry from early times to the present.

402. Chemical Literature—(2 Sem. Hrs.)

Chemical literature and the most effective methods of using chemical literature are discussed.

**403. Problems in the Teaching of High School Physical Science—
(2 Sem. Hrs.)**

Service course for physical science teachers dealing with a consideration of improved techniques, current literature, free and low cost materials, etc. Emphasis on the solution of specific problems that have confronted teachers of physical science in the classroom and laboratory. This course is to be taught on a workshop basis.

411 and 412. Seminar in Chemistry—(1 Sem. Hr.)

Survey of the current work in chemistry both in pure research and in the application of the newer theories of chemistry to the teaching of chemistry on the secondary level.

499. Thesis or Research Project—(2 to 4 Sem. Hrs.)

Each student will select a problem for intensive investigation.

SOCIAL SCIENCE

315. Public Finance—(3 Sem. Hrs.)

Governmental expenditures and income with emphasis upon the continuous expansion of federal expenditures and problems growing out of that situation.

320. European Background of American History—(3 Sem. Hrs.)

European origins of American arts and institutions based on an analysis of the American scene and the tracing of European influences to the sources.

321. Imperial England—(2 Sem. Hrs.)

International significance of the British Empire, distinctions between colonies and dominions, suzerainties and protectorates, with particular attention to recent policies and trends.

322. Middle East in the Twentieth Century—(2 Sem. Hrs.)

Struggle for power in the Arab states; the significance of their natural resources in world economy from the era of mandated territories through the struggle over Palestine.

323. Balkans—(2 Sem. Hrs.)

History of this strategic area in the late nineteenth and early twentieth centuries. Topics selected to demonstrate the development and interplay of nationalism, imperialism, and power politics.

331. Lincoln: the Man and His Times—(2 Sem. Hrs.)

Emphasis on the use of biography and collections of Lincoln materials both private and public. Attention directed especially toward the work of Lincoln in Illinois, his leadership during the Civil War, and his relationships with men and events of his time.

333. History of the Mississippi Valley—(3 Sem. Hrs.)

Study in regionalism. Emphasis on the frontier, population movements, natural resources, and unique economic, political, and social development.

334. Foreign Relations Since 1898—(3 Sem. Hrs.)

American diplomacy in the Far East, Latin America, and Europe; conflicting ideologies and interests; alignments and objectives from the Spanish-American War to World War II.

335. Study and Teaching of History—(2 Sem. Hrs.)

Development of the emphasis in content, writing, and organization of materials employed in the study and teaching of history. Attention directed toward the relation of the subject to allied subjects and to its place in the curriculum. Useful to prospective and experienced teachers in the junior and senior high schools and in junior colleges. *Prerequisite:* Sixteen semester hours in history.

357. Comparative Government—(2 Sem. Hrs.)

To broaden the student's outlook and to familiarize him with the achievements of other political units. The structure and functioning of governments of Great Britain, Germany, France, Russia, China, Japan, Switzerland, and other small states.

358. Public Opinion and Propaganda—(3 Sem. Hrs.)

Basic implications, modern techniques, and current machinery of communication. Control exercised by the folkways, government, business, religion, motion pictures, radio, and education. Special attention is focused on those phases of the material which are related to the work of the school.

361. Cultural Anthropology—(2 Sem. Hrs.)

Examination of family life, economic organization, religion, folklore, social organization, government, language, education, inventions, and art forms of pre-literate peoples as a background for curricular materials in the elementary school.

363. Child Welfare Services—(3 Sem. Hrs.)

Examination of policies, personnel, facilities, and practices for the care of dependent, neglected, delinquent, physically-handicapped, and mentally-retarded children. Consideration given to adoptive procedures, foster-home placements, probation, parole, and vocational placements.

367. Criminology—(2 Sem. Hrs.)

Intensive study of the causes of crime and delinquency, together with the recognition, detection, and prevention of criminal acts. Attention given to roles to be assumed by contemporary institutions in preventing crime; also to the evolution of penology and current practices in penal care.

368. Regionalism in the United States—(2 Sem. Hrs.)

Cultural aspects of regionalism from the viewpoints of history, sociology, economics, government, art, literature, music, and drama. An examination of the population, institutions, folkways and personality traits in specific areas. Attention given to the region in the formulation of the curriculum.

410. Social Control of Business—(3 Sem. Hrs.)

Development of government regulation of business with emphasis upon major problems and conflicting philosophies underlying proposals for social control of industry.

412. Intermediate Economic Theory—(3 Semester Hrs.)

Intense and critical examination of the economic theory underlying the operation of a system of free enterprise.

419. Research Problems in Local History—(3 Sem. Hrs.)

Intensive study of a problem connected with the political, cultural, and social development of Illinois. For advanced students.

436. Makers of American History—(2 Sem. Hrs.)

Interrelationship between men and events graphically and colorfully presented through the study of biographical materials. Individuals or types to be studied selected by members of the class.

439. Cultural History of the United States—(3 Sem. Hrs.)

American progress in the fine arts, philosophy, literature, and science, and refinement in tastes and manners. Special note is taken of sectional variations and the impact of immigration, urbanization, and industrialization upon the nation's cultural growth.

455. Political Thought—(3 Sem. Hrs.)

Contemporary political thought with emphasis on the development of American political ideas. Designed to give the student a solid foundation in democratic ideology. Background information drawn from the history of European political theory.

456. Constitution of the United States—(3 Sem. Hrs.)

Constitution of the United States and its amendments. Structure and fundamentals of American government, significant constitutional principles and trends. Designed to give the prospective teacher the knowledge necessary to teach and vitalize courses in civics and citizenship.

466. Social Theory—(2 Sem. Hrs.)

Social theorists and their theories—Comte, Cooley, Durkheim, Giddings, Gumplowicz, Le Bon, Ratzenhofer, Ross, Small, Spencer, Sumner, Tarde, Thomas, and Ward—will be related to and integrated with educational policies.

469. Educational Sociology—(2 Sem. Hrs.)

Examination of the social implications of the curriculum and the way in which it is derived. Consideration given to the diffusion of culture, the culture lag, social control, and social processes. Selection of current materials which are objective, functional, institutional, and descriptive.

498 and 499. Seminar and Thesis or Research Project—(2 and 2 Sem. Hrs.)

Independent study and research culminating in a thesis or research project.

SPANISH

301. Spanish-American Literature—Summer only—(3 Sem. Hrs.)

History of Spanish-American literature from the colonial period to the present day, studied according to nationality. Special emphasis on material suitable for use in secondary schools.

401. Don Quixote—Summer only—(3 Sem. Hrs.)

Reading of the Quixote with special attention to problems of interpretation and literary criticism.

SPEECH

311. Advanced Phonetics—(3 Sem. Hrs.)

Review of the production and representation of speech sounds; a study of the methods and devices used in teaching speech sounds to those with defective speech. *Prerequisite*: Previous study of phonetics.

318. Stuttering—(3 Sem. Hrs.)

Study of the research relating to stuttering and of the methods of examination, diagnosis, and remedial procedures. *Prerequisite*: Speech 212 or 215.

323. Discussion Technique—(2 Sem. Hrs.)

Investigation and experimentation in the democratic method of solving problems.

324. Persuasion and Social Control—(2 Sem. Hrs.)

Study of and practice in persuasive speech; its use in social control.

325. Advanced Argumentation and Debate—(2 Sem. Hrs.)

Advanced study in argumentation and debate. *Prerequisite*: Speech 125.

327. Rhetorical Criticism—(3 Sem. Hrs.)

Critical consideration of rhetorical and psychological principles involved in meeting speech situations. *Prerequisite*: Speech 227 or equivalent.

328. British and American Public Address—(3 Sem. Hrs.)

Study of outstanding speakers of Great Britain and the United States from the beginning of the 18th Century to the present and the main issues which motivated them. *Prerequisite*: Speech 227.

352. Aural Rehabilitation—(3 Sem. Hrs.)

Evaluations of limitations in oral communication imposed by hearing losses; training and counseling procedures, theory and practice.

370. Psychology of Speech—(2 Sem. Hrs.)

Acquisition of speech, its function in the development of an integrated personality, its function in communication.

381. Teaching of Speech in the Secondary School—(2 Sem. Hrs.)

Present trends in the teaching of speech and an evaluation of current teaching materials.

415. Seminar in Speech Re-education—(2 Sem. Hrs.)

416. Speech Pathology—(3 Sem. Hrs.)

Etiology of defective speech arising from neurological and structural pathologic conditions and methods of therapy used to remedy such deviations. *Prerequisite*: Speech 212 or 215 and previous study of phonetics.

417. Clinical Practice in Speech Re-education—(1 to 6 Sem. Hrs.)

Supervised work with speech deviates of various types. *Prerequisite*: Speech 212 or 215 and previous study of phonetics.

421. Seminar in Rhetoric—(2 Sem. Hrs.)

450. Clinical Acoustics—(2 Sem. Hrs.)

Advanced testing procedures employing laboratory equipment in conducting extensive hearing studies. *Prerequisite*: Speech 250 or 352.

451. Seminar in Audiology—(2 Sem. Hrs.)

455. Pathologies of Hearing—(2 Sem. Hrs.)

Functional deviations in impaired hearing related to pathologies of the ear as compared with the physiology of the normal ear. *Prerequisite*: Speech 256 or 352.

471. Experimental Phonetics—(2 Sem. Hrs.)

Laboratory course in the study of phenomena prevailing in and accompanying the production of spoken language.

481. Seminar in Speech Education—(2 Sem. Hrs.)

499. Thesis or Research Project—(2 to 4 Sem. Hrs.)

Independent study culminating in a thesis or carefully written report on a research project.

INDEX

Accreditation	10	Health and Physical Education	35
Administration	5	Health Service	16
Admission	12	History (See Social Science)	
Admission to candidacy	13	Home Economics	36
Advisory Committee	12	Industrial Arts	37
Art	25	Late afternoon, evening, and Saturday classes	11
Assistantships	15	Latin	38
Biological Science	26	Living Accommodations	14
Bureau of Appointments	18	Loan Fund	16
Business Education	27	Marking system	19
Buildings and equipment	10	Master of Science in Education Degree	21
Calendar	4	Mathematics	38
Chemistry (See Physical Science)		Music	39
Courses of Instruction	25	Part-time load	19
Credit, definition of	25	Physical Science (Chemistry)	41
Curricula	22	Psychology	32
Degree Requirements	21	Residence requirement	20
Departments offering graduate work	22	Scholarship requirement	20
Education and Psychology	28	Scholarships	15
English	33	Social Science	42
Fees and Expenses	13	Spanish	44
Faculty	6, 10	Speech	44
Financial Aids	15	Summer session	11
French	34	Thesis or research project	21
General information	9	Time limitation	20
Geography	34	Veterans, Services for	11
		Withdrawals	20

